A UNITED STATES
DEPARTMENT OF
COMMERCE
PUBLICATION

FISHERY STATISTICS OF THE UNITED STATES 1970

STATISTICAL DIGEST NO. 64

U.S.
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STATISTICAL DIGEST 64

FISHERY STATISTICS OF THE UNITED STATES 1970

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PUBLISHED BY NATIONAL MARINE FISHERIES SERVICE/WASHINGTON/1973
PRINTED BY U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C. 20402 - Price $4 (Paper)
Stock Number 0320-00076

ACKNOWLEDGMENTS

The data in this edition of "Fishery Statistics of the United States" were collected in cooperation with the various States and tabulated by the staff of the Statistics and Market News Division under the direction of Hoyt A. Wheeland. The material was prepared for publication by Thelma I. Bell and Susan Flint. Field surveys were supervised by the various regional and area offices. Program leaders in charge of field surveys were: Francis Riley for the New England, Middle Atlantic, Chesapeake, Great Lakes, and northern Mississippi River States; George Snow for the South Atlantic, Gulf, and southern Mississippi River States; James R. Bybee, California; Victor J. Samson, Washington and Oregon; Henry Jimmie, Alaska; and Robert Iverson, Hawaii.

The cooperation of the many contributors is gratefully acknowledged. Contributors are given credit for their information in the section of the report in which the data appear.

PREFACE

This report contains a review of the fishery statistics for the year 1970. These statistics include data on the volume and value of landings of fishery products, employment in the fisheries, quantity of gear operated, number of fishing craft employed in the capture of fishery products, information on the volume and value of the production of processed fishery products, data on freezings and cold storage holdings, and on foreign trade in fishery commodities.

Data on employment of fishermen, fishing craft and gear in the fisheries, and on the landings of fish, shellfish, and other aquatic plants and animals, are shown for States having commercial fisheries. There is also information on the pack of canned tuna and industrial products for Puerto Rico and American Samoa included in the processed products tables. In Section 11, Puerto Rico landings data are also shown.

In all of the landings tables in this report, except the one on page 42 entitled, "U.S. Landings, 1970-Live Weight Basis," the volume of fish, crustaceans, and such mollusks as squid is shown in round (live) weight. However, the weights shown for univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) represent the weights of meats, excluding the shell. The weight of shells omitted from the catch in 1970 amounted to about 1.2 billion pounds. It should be noted, however, that the data in the table on page 43 "World Landings of Fish, Crustaceans, Mollusks, etc., by Countries" are shown on a live weight basis.

All appropriate records collected by the various State fishery agencies were used in assembling data on the fisheries. In certain areas, information complete enough to be used by the statistical agents was available from State agencies, and in these States, only partial surveys were conducted. Information on the means of collecting the data and an explanation of terms used may be found in Section 13 of this publication.

Complete statistical surveys covering the fisheries of the United States were conducted in all areas for 1970. The first complete survey of the fisheries of the United States was made by the Bureau of the Census for 1908. Others were made by the Bureau of Fisheries and the Fish and Wildlife Service for the years 1931, 1950, 1954-60, and 1962-69.

FISHERY STATISTICS OF THE UNITED STATES, 1970

Statistics and Market News Division

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SECTION 1 - GENERAL REVIEW

The commercial fisheries of the United States yielded a harvest of 4.9 billion pounds worth a record $613.1 million--an increase of 580.4 million pounds (13 percent) and $86.6 million (16 percent) compared with 1969. Landings were the best since 1962, the record year. There were record landings of Gulf menhaden, shrimp, yellowfin tuna, Pacific anchovies, surf clams, Dungeness and snow crabs, American (northern) and spiny lobsters; and near-record landings of albacore tuna. Landings of Atlantic menhaden, salmon, spot, and blue crabs also increased significantly compared with 1969. Declines occurred, however in landings of alewives, haddock, sea herring, jack mackerel, mullet, and sea scallops.

Fishermen took 898.3 million pounds of shellfish worth $286.1 million, an average of nearly 32 cents per pound--slightly less than in 1969. Shellfish accounted for 47 percent of the value, but only 18 percent of the volume of U.S. landings. The value of shellfish exceeded the value of finfish in the New England, Middle Atlantic, Chesapeake, South Atlantic, and Gulf States.

Disposition of landings. In 1970, as in the previous year, landings for human food (2.5 billion pounds) exceeded the quantity taken for industrial products (2.4 billion pounds). NMFS statisticians estimate that the 1970 landings were used as follows: 2,537 million pounds (round weight) for human food--of which 1,479 million were used fresh and frozen, 987 million were canned, and 71 million were cured; and 2,380 million pounds for industrial purposes--of which 116 million were used fresh or frozen, 163 million were canned, and 2,101 million were reduced into meal, oil, and solubles. In addition to the latter items, the quantity processed into industrial products includes fish used for bait, fed to fur-bearing animals and pets, and manufactured into such items as shell buttons, and pearl essence and novelties.

Per capita consumption. The per capita consumption of commercially caught fish and shellfish in the United States was 11.8 pounds (edible weight)--compared with 11.2 in 1969.

Per capita consumption of commercially caught fish and shellfish, 1961-70

(Edible weight)

Year	Pounds	Year	Pounds
1961	10.7	1966	10.9
1962	10.6	1967	10.6
1963	10.7	1968	11.0
1964	10.5	1969	11.2
1965	10.9	1970	11.8

Note:--Data have been revised for 1963, 1966, 1967, and 1969.

Principal States. Louisiana again led the Nation in volume of landings with 1.1 billion pounds--23 percent of the U.S. landings. California was next with 702.7 million pounds, followed by Virginia, 550.6 million; Alaska, 545.3 million; Mississippi, 301.0 million; and Massachusetts, 286.9 million pounds. These six States had 71 percent of the U.S. landings.

Alaska led all States in exvessel value of landings with $96.1 million--16 percent of the value of the Nation's landings. California was next with $86.4 million, followed by Louisiana, $62.5 million; Texas, $53.6 million; Massachusetts, $47.0 million; and Florida, $43.3 million. These six States accounted for 63 percent of the exvessel value of landings.

Principal ports. San Pedro, Calif., led all ports in volume of landings with 496.4 million pounds. Cameron, La., was next with 354.4 million pounds, followed by Pascagoula-Moss Point, Miss., 241.3 million; Dulac-Chauvin, La., 209.0 million; Empire, La., 152.5 million; and Kodiak, Alaska, 145.3 million pounds. Boston, Mass., continuing the downward trend of recent years was 16th in volume of landings. In 1932, it was the Nation's leading port.

Processed products. The production of processed fishery products (canned, packaged fresh and frozen, cured, and industrial) in the United States, American Samoa, and Puerto Rico was worth a record $1.7 billion--16 percent greater than in 1969, the former record year. Packaged fresh and frozen products were 46 percent of the total value; canned, 43 percent; industrial, 6 percent; and cured, 5 percent. The Pacific Coast States led with products valued at $579.7 million; followed by the Gulf States with $325.7 million; New England, $246.5 million; and Middle Atlantic States, $139.5 million. In 1970, the 3,735 wholesaling and processing establishments had 86,813 employees.

Menhaden. Landings of 1,837 million pounds of menhaden were 292.0 million more than in 1969, and the best harvest since the record 2,348 million pounds taken in 1962. Record landings of 1,209 million pounds in the Gulf States and a marked gain in landings along the Atlantic coast largely accounted for the greater production. Compared with 1969, landings increased sharply in the New England and Chesapeake States but declined in the Middle Atlantic and South Atlantic States.

The improved landings were reflected in the production for industrial use. Compared with 1969, the production of menhaden meal (188,600 tons) increased 29,100 tons and was 70 percent of the total domestic production. The 186.3-million-pound production of menhaden oil increased 37.1 million compared with 1969, and was 90 percent of the domestic production.

Salmon. Landings were 412.4 million pounds worth a record $99.0 million--an increase of 143.4 million pounds and $36.1 million compared with 1969. Alaska landings of 346.5 million pounds worth $68.0 million accounted for 84 percent of the total salmon harvest and 69 percent of the total value. A sharp increase in red salmon landings in Alaska and near-record silver salmon landings in Washington and Oregon were the principal reasons for the greater production.

The pack of canned salmon was 3,822,200 standard cases worth a record $138.7 million--a gain of 1,271,300 cases and $48.4 million compared with 1969. It was the largest pack since 1966. The increase was principally in Alaska where the pack of 1,705,500 cases of red salmon was almost 1 million cases more than in 1969. The pack of pink salmon in Alaska (1,328,500 cases) also improved markedly compared with the previous year. Alaska had 93 percent of the canned pack of salmon and 90 percent of the value.

Tuna. Landings by the U.S. fleet at ports in continental United States and Hawaii were 393.5 million pounds worth a record $75.0 million--68.6 million pounds (21 percent) and $20.1 million (37 percent) more than in 1969. The average price per pound received by fishermen for albacore, bluefin, skipjack, and yellowfin tuna increased sharply compared with 1969 and largely accounted for the record value.

The production was second only to the record harvest of 403.4 million pounds taken in 1950. The near-record volume in 1970 was caused principally by record landings of 237.4 million pounds of yellowfin tuna. Also contributing to the increase were skipjack tuna landings of 84.2 million pounds (up 62 percent compared with 1969) and albacore tuna landings of 56.1 million pounds (up 17 percent). Landings of bluefin tuna, however, declined substantially compared with 1969.

The pack of canned tuna was a record 22.1 million cases worth a record $380.6 million--an increase of 10 percent in volume and 28 percent in value compared with 1969. Canned tuna available for consumption in 1970 (U.S. pack from domestic landings plus U.S. pack from imported tuna and imported canned) was a record 509.9 million pounds. About 40 percent of the U.S. supply was packed from domestic landings--slightly more than in 1969.

Per capita consumption of canned tuna, which was 2.0 pounds in 1960, reached 2.5 pounds in 1970.

Shrimp. Landings of a record 367.5 million pounds (heads-on) worth a record $129.8 million were 48.9 million pounds (15 percent) and $5.3 million (4 percent) more than in 1969. Contributing substantially to the greater production were Pacific Coast landings of 92.9 million pounds (up 49 percent) and Gulf States landings of 230.5 million (up 15 percent). In the Pacific Coast States, Alaska landings were 80 percent of the total. The shrimp fishery in Alaska has trended sharply upward since 1959 when landings were 13.1 million pounds--at that time a record harvest. In the Gulf States, landings exceeded 200 million pounds for the fourth consecutive year. However, New England landings (23.5 million pounds) declined 17 percent compared with 1969, and South Atlantic States landings (20.6 million) declined 25 percent. The exvessel value of landings increased in all areas except the South Atlantic States.

Crabs. Landings of crabs, all species, were 277.2 million pounds worth $39.2 million--a gain of 19.9 million pounds but a decrease of $3.9 million compared with 1969. Hard blue crab landings increased sharply--from 132.3 million pounds in 1969 to 145.4 million in 1970. Catches improved in all areas. Record landings of both Dungeness crabs (58.5 million pounds) and snow crabs (14.5 million) also contributed substantially to the greater volume. The harvest of king crabs (52.1 million pounds), however, was the smallest since 1961, and landings of soft blue crabs (2.7 million) declined 41 percent. The decline in exvessel value reflected a decline of about 2 cents in the average price per pound received by fishermen for landings of Dungeness, king, and hard blue crabs.

Anchovies. Record landings of anchovies in California were 192.5 million pounds--a gain of 57.2 million (42 percent) compared with 1969, the former record year. In 1970, greater fishing effort, early season price agreement, and favorable market prices for anchovy meal contributed to the increased landings. The anchovy fishery (used principally for reduction to meal and oil) was in its sixth consecutive year.

Flounders. Landings of 168.5 million pounds worth $23.1 million were 6.3 million pounds and $3.2 million more than in 1969. Flounder landings on the Pacific coast (46.0 million pounds) declined 3 percent compared with 1969. On the Atlantic and Gulf coasts the flounder production was 122.5 million pounds--a 7-percent gain over 1969. Landings of blackback (24.3 million pounds), fluke (5.7 million), and yellowtail flounders (71.3 million pounds) all increased moderately compared with 1969. Yellowtail flounder landings were 60 percent of the Atlantic and Gulf flounder harvest. Overfishing of the yellowtail flounder resource by both domestic and foreign fleets during recent years has led the International Commission for the Northwest Atlantic Fisheries (ICNAF) to recommend proposed regulations for member nations fishing the resource. Beginning in 1971, the fishery will be regulated by closed seasons, catch quotas, and minimum mesh size of trawls.

Groundfish. The Atlantic fishery for groundfish (cod, cusk, haddock, white hake, pollock, and ocean perch) yielded 149.6 million pounds worth $15.6 million--a decline of 22.7 million pounds and $157,000 compared with 1969. Haddock landings of 26.9 million pounds were 18.9 million less than in 1969 and the principal cause of the decline. The haddock production was the smallest on record. Results of a survey made by the NMFS research vessel, Albatross IV, showed that haddock will probably not be plentiful for at least another 3 or 4 years--particularly on Browns or Georges Banks, formerly among the most productive haddock fishing grounds. As conservation measures, ICNAF instituted catch quotas and closed seasons for both fishing areas. Compared with 1969, landings of three other groundfish species declined. The cod harvest of 53.2 million pounds was 7 percent less than in 1969. Landings of pollock (8.8 million pounds) and ocean perch (55.3 million) also declined slightly. Cusk and white hake were the only species landed in greater volume than in 1969.

GENERAL REVIEW

Clams. Record landings of 99.2 million pounds of clam meats worth a record $28.8 million were 18.5 million pounds and $3.6 million more than in 1969, the former record year. The volume increase was caused principally by record landings of surf clams in both the Middle Atlantic and Chesapeake States. Suft clam landings in these two areas, together with a small New England production, accounted for 68 percent of the total clam harvest. Landings of hard clams (16.0 million pounds) and soft clams (12.9 million pounds) were about the same as in 1969, and together accounted for 29 percent of the total clam production.

Sea herring. Landings of 88.6 million pounds were 3 percent less than in 1969. The entire decline was along the Atlantic coast where landings were 66.8 million pounds--compared with 69.2 million in 1969. Landings in Maine, for many years the mainstay of the sea herring fishery, were only 36.6 million pounds--17.6 million less than in 1969, and the third smallest harvest since the turn of the century. Massachusetts, however, had the largest landings (27.4 million pounds) since 1908. Pacific coast landings of 21.8 million pounds improved slightly because of increased production in Alaska where the fish are used for reduction to meal or for bait.

Imports of fresh Canadian sea herring, which are used principally for canning and reduction in Maine, were 78.5 million pounds--a decrease of 16.1 million compared with 1969, and of 87.3 million pounds compared with 1968. The Maine pack of sardines canned from sea herring (806,500 standard cases worth $11.2 million) declined 23 percent in volume and 2 percent in value compared with 1969.

Alewives. The harvest of 69.5 million pounds was 17.7 million less than in 1969, principally because of sharp declines in landings along the Atlantic coast. Landings in the Chesapeake States (21.1 million pounds) declined 38 percent and in the South Atlantic States (11.6 million) 47 percent compared with 1969. Landings increased slightly in all other areas, but chiefly in the Great Lakes where the production of 33.5 million pounds of alewives (taken entirely in Lake Michigan) was 4.2 million more than in 1969. The Great Lakes landings accounted for 48 percent of the entire U.S. production of alewives in 1970.

Halibut, Pacific. Landings by the combined United States and Canadian halibut fleets were 54.9 million pounds (dressed weight)--6 percent less than in 1969. For the third consecutive year, Canadian fishermen landed more halibut (53 percent of the production) than United States fishermen.

Alaska landings were 82 percent of the total U.S. harvest. As halibut receipts increased at Kodiak and other Alaska ports, they declined to an alltime low at Seattle, Wash. The pattern of landings changed principally because Alaska firms began paying fishermen prices that competed with the higher prices traditionally offered at Seattle. Most fishermen preferred to deliver halibut to ports near the fishing areas and to make additional fishing trips in the time formerly lost in the long run to Seattle. Halibut prices continued firm in 1970 until the end of the season when mounting inventories of frozen halibut caused a sharp decline in exvessel prices.

Oysters. The harvest of 53.6 million pounds of meats worth $29.5 million was 3 percent more in volume and 7 percent more in value than in 1969. Sharp increases in landings in the Chesapeake and Pacific Coast States and slighter increases in the New England and Middle Atlantic States contributed substantially to the greater production. In the South Atlantic and Gulf States, however, landings declined markedly compared with 1969. Landings of 1.6 million pounds in the South Atlantic States decreased to an alltime low. In the Gulf States, landings of 17.7 million pounds were 10 percent less than in 1969 and the smallest since 1966. The oyster fishery in the Gulf States had been decimated by hurricane *Camille* in 1969, and the oyster reefs along the coasts of Alabama, Mississippi, and Louisiana had not fully recovered from the devastating effects of the hurricane.

GENERAL REVIEW

Whiting. Landings of 44.5 million pounds worth a record $3.9 million increased 2 percent in volume and 47 percent in value compared with 1969. New England landings accounted for 90 percent of the volume and 87 percent of the value. When the season opened, New England fishermen received 10 cents per pound for whiting--compared with the average price of 5.5 cents per pound paid in 1969. The sharp increase was caused principally by the unusually small landings and consequent short supply in 1969. Plant owners were willing to pay high prices for whiting in order to replenish depleted inventories. In 1970, the New England price finally stabilized at an average price of 8.4 cents per pound.

Lobsters. Landings of American (northern) lobsters were a record 34.2 million pounds worth a record $33.5 million--a gain of 365,000 pounds and $4.5 million compared with 1969. New England landings of 30.4 million pounds were slightly less than in 1969, but the Middle Atlantic and Chesapeake States had record harvests. A small quantity was also landed in the South Atlantic States for the fourth consecutive year. Lobster fishermen received an average price of 98 cents per pound--compared with 86 cents in 1969. The United States domestic landings of American lobsters plus imports from Canada increased from 51.2 million pounds in 1969 to 51.3 million in 1970--the best available supply since 1964.

Landings of spiny lobsters were a record 10.3 million pounds worth a record $6.3 million--an increase of 1.6 million pounds and $22,000 compared with 1969. Record landings of 7.1 million pounds in the Gulf States accounted for the greater production. The harvest declined in all other areas.

Sea scallops. Landings of 7.3 million pounds of meats worth $9.4 million declined 22 percent in volume and 3 percent in value compared with 1969. The harvest was far less than the record 27.5 million pounds taken 10 years earlier. Landings declined in all areas. In the New England States, always foremost in the sea scallop fishery, landings of 4.5 million pounds were 13 percent less than in 1969, and the smallest production since 1945. During the 1946-50 period, landings of sea scallop meats at New England ports, chiefly New Bedford, averaged 12.6 million pounds annually; during 1951-55, they averaged 16.5 million; 1956-60, 19.0 million; 1961-65, 18.0 million; and 1966-70, 7.4 million pounds.

Record imports of 16.8 million pounds (principally from Canada) were 18 percent greater than in 1969. They supplied 70 percent of the total quantity of sea scallops available in the United States (24.1 million pounds)--compared with 61 percent in 1969.

High-seas fishery. U.S. fishermen landed 403.8 million pounds of fish and shellfish taken on the high seas off the coasts of foreign countires. Landings in the Pacific Coast States of 353.7 million pounds accounted for 88 percent of the total. The 324.0-million-pound landings of tuna taken off Central and South America increased 58.5 million compared with 1969. The tuna harvest was 80 percent of the total U.S. landings off foreign coasts and 82 percent of the total domestic tuna landings.

Whales. In 1970, the U.S. Department of the Interior placed eight species of whales on the endangered species list--reflecting a mounting national concern over the prediction of biologists that certain species are approaching extinction. The endangered whales were the bowhead, blue, humpback, right, gray, fin or finback, sei, and sperm. The last three were the only species sought recently by U.S. commercial whalers. Only one whaling station, located in California, was active in 1970. The catch numbered 73 whales--110 less than in 1969. There were 5 fin, 4 sei, and 64 sperm whales taken in 1970.

GENERAL REVIEW

Fishery imports. Fishery products imported for consumption were worth a record $1.0 billion, and exports were worth a record $117.5 million--an increase of $193.1 million in imports and $13.0 million in exports compared with 1969. Imports of edible fishery products were a record 1.9 billion pounds worth a record $812.5 million--10 percent more in volume and 15 percent more in value than in 1969. The greater volume resulted principally from increased receipts of fresh and frozen albacore and yellowfin tuna (including loins and discs), fillets and steaks (including groundfish and other than groundfish), oysters, and scallops; canned sardines in oil, anchovies and sea herring in oil and not in oil, and unclassified fish not in oil; and pickled or salted sea herring. Record shrimp imports of 218.7 million pounds worth $200.0 million (including fresh and frozen, canned, and cured) entered U.S. ports in 1970. Shrimp was the major item imported with respect to value--accounting for 25 percent of the value of imported edible items. The following items declined in volume in 1970: fresh and frozen sea herring and spiny lobsters and canned oysters and oyster juice.

Imports of nonedible fishery products were worth $224.9 million--a gain of $85.4 million compared with 1969. The principal increase was in imports of fish and marine animal oils and of other nonedible fish, shellfish, and marine animal products.

U.S. supply. The total quantity of fishery products available in the United States (domestic landings plus imports) on a round-weight basis declined from 11.8 billion pounds in 1969 to 11.5 billion in 1970--principally because of a decrease, for the second consecutive year, in imports of fish meal. U.S. landings were 4.9 billion pounds--compared with 4.3 billion in 1969. Imports of 6.6 billion pounds accounted for 57 percent of the total--compared with 63 percent in 1969 and 76 percent in 1968. The quantity of edible fishery products available was 6.2 billion pounds--imports accounted for 59 percent of this amount.

World landings. World landings of fish, crustaceans, mollusks, and other aquatic organisms were a record 152.8 billion pounds (live weight)--an increase of 10 percent compared with 1969. Peru, for the ninth consecutive year, led all nations in volume of fishery landings, followed by Japan, Soviet Russia, China (Mainland), Norway, and the United States. These six nations accounted for 59 percent of world landings in 1970.

Other information. Summaries of landings statistics for certain States have been published previously in the Current Fishery Statistics series of bulletins. A preliminary review titled "Fisheries of the United States," available each April, contains current information on many aspects of the fisheries such as domestic and world landings, per capita consumption, price indexes, foreign trade, and supplies, together with comparative data for the previous year. "Fisheries of the United States" is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

LANDINGS OF FISH AND SHELLFISH, 1945-70

(ROUND WEIGHT BASIS)

YEAR	LANDINGS FOR HUMAN FOOD	LANDINGS FOR INDUSTRIAL PRODUCTS 1/	TOTAL		AVERAGE PRICE PER POUND
	MILLION POUNDS			MILLION DOLLARS	CENTS
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	373	7.86
1959	2,369	2,753	5,122	346	6.76
1960	2,498	2,444	4,942	354	7.15
1961	2,490	2,697	5,187	362	6.98
1962	2,540	2,814	5,354	396	7.40
1963	2,556	2,291	4,847	377	7.78
1964	2,497	2,044	4,541	389	8.57
1965	2,587	2,190	4,777	446	9.34
1966	2,572	1,794	4,366	472	10.81
1967	2,368	1,687	4,055	440	10.85
1968	2,346	1,814	4,160	497	11.95
1969	2,321	2,016	4,337	527	12.15
1970	2,537	2,380	4,917	613	12.47

1/ MANUFACTURED INTO MEAL, OIL, FISH SOLUBLES, HOMOGENIZED CONDENSED FISH, SHELL PRODUCTS, AND USED AS BAIT AND ANIMAL FOOD.

NOTE:--DOES NOT INCLUDE DATA ON THE HAWAII LANDINGS PRIOR TO 1948.

SUMMARY OF LANDINGS, 1970

REGION	FISH		SHELLFISH ET AL.		WHALE PRODUCTS		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
NEW ENGLAND	451	40	80	51	-	-	531	91
MIDDLE ATLANTIC	68	6	72	24	-	-	140	30
CHESAPEAKE.	511	13	119	27	-	-	630	41
SOUTH ATLANTIC.	209	12	71	18	-	-	280	30
GULF.	1,404	42	294	125	-	-	1,698	167
PACIFIC	1,223	195	255	40	2	(1)	1,480	235
GREAT LAKES	72	6	-	-	-	-	72	6
MISSISSIPPI RIVER AND TRIBUTARIES.	67	9	8	1	-	-	75	10
HAWAII.	11	4	(1)	(1)	-	-	11	4
TOTAL	4,017	327	698	286	2	(1)	4,917	613

1/ LESS THAN 500,000 POUNDS OR $500,000.
NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	NUMBER				
FISHERMEN:					
ON VESSELS.	3,236	1,638	3,964	3,397	13,356
ON BOATS AND SHORE. . . .	18,982	6,831	15,034	5,484	11,535
TOTAL	22,218	8,469	18,998	8,881	24,891
VESSELS:					
MOTOR	686	455	1,527	1,211	4,320
GROSS TONNAGE	43,798	21,511	26,298	53,564	238,003
SAIL.	-	-	39	-	-
GROSS TONNAGE	-	-	465	-	-
TOTAL VESSELS	686	455	1,566	1,211	4,320
TOTAL GROSS TONNAGE .	43,798	21,511	26,763	53,564	238,003
BOATS:					
MOTOR	11,703	3,878	11,638	4,730	9,360
OTHER	252	143	667	211	165
GEAR:					
HAUL SEINES	30	41	255	137	114
STOP NETS AND SEINES. . .	27	-	-	-	-
PURSE SEINES AND LAMPARA NETS:					
HERRING	27	-	-	-	5
MACKEREL AND SARDINE. .	5	-	-	-	-
MENHADEN.	2	6	25	43	76
TUNA.	3	3	-	-	-
OTHER	-	-	-	5	9
BAG NETS.	9	-	-	80	-
BUTTERFLY NETS.	-	-	-	-	865
OTTER TRAWLS:					
CRAB.	-	-	-	449	-
FISH.	651	227	68	133	82
LOBSTER	48	72	10	-	-
SCALLOP	-	-	-	22	-
SHRIMP.	476	-	-	2,542	10,690
WEIRS	56	5	-	-	-
POUND NETS.	19	97	2,954	841	-
FLOATING TRAPS.	31	-	-	-	-
FYKE AND HOOP NETS. . . .	12	80	576	297	14,200
POTS AND TRAPS:					
CONCH	4,081	525	-	-	-
CRAB.	653	6,321	254,435	73,715	200,500
CRAWFISH.	-	-	-	-	21,400
EEL	976	2,799	23,516	368	-
FISH.	-	7,125	16,799	19,345	2,434
LOBSTER	1,390,882	62,520	-	69,550	150,750
SHRIMP.	400	-	-	-	-
TURTLE.	-	136	260	-	-
BOX TRAPS	3	-	-	-	-
GILL NETS:					
ANCHOR, SET OR STAKE. .	29	167	3,371	1,936	472
DRIFT	179	70	1,107	422	7
RUNAROUND	-	62	-	303	868

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
			NUMBER		
GEAR - CONTINUED:					
TRAMMEL NETS	-	-	-	10	614
HOOKS AND BAITS	411,204	61,278	1,434,977	759,326	880,212
DIP NETS	261	-	198	68	10,697
CAST NETS	-	-	-	17	13
HARPOONS	62	-	-	-	-
SPEARS	80	43	-	86	185
SCRAPES	-	-	197	-	-
DREDGES:					
CLAM	54	130	300	22	2
CONCH	-	-	1	-	-
CRAB	-	-	324	-	-
MUSSEL	14	-	-	-	-
OYSTER	18	66	446	147	1,301
SCALLOP	3,785	529	40	157	112
OTHER	-	-	2	-	-
TONGS AND OYSTER GRABS	446	2,318	7,198	463	1,852
RAKES	2,036	3,241	55	298	-
HOES	4,744	32	-	-	-
FORKS	67	-	-	-	-
BRUSH TRAPS	-	-	-	-	41,730
GRABS, FROG	-	-	-	-	37
HOOKS, SPONGE	-	-	-	37	29
DIVING OUTFITS	105	-	-	2	9

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII 1/	TOTAL, EXCLUSIVE OF DUPLI-CATION
			NUMBER		
FISHERMEN:					
ON VESSELS	20,158	515	-	333	44,711
ON BOATS AND SHORE	21,984	955	13,919	1,103	95,827
TOTAL	42,142	1,470	13,919	1,436	140,538
VESSELS:					
MOTOR	5,446	231	-	80	13,552
GROSS TONNAGE	195,999	4,702	-	2,278	554,320
SAIL	-	-	-	-	39
GROSS TONNAGE	-	-	-	-	465
TOTAL VESSELS	5,446	231	-	80	13,591
TOTAL GROSS TONNAGE	195,999	4,702	-	2,278	554,785
BOATS:					
MOTOR	15,969	555	13,100	637	71,570
OTHER	275	59	179	49	2,000
GEAR:					
HAUL SEINES	195	60	307	(1)	1,139
STOP NETS AND SEINES	-	-	-	-	27
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY	33	-	-	-	33
HERRING	59	-	-	-	91
MACKEREL AND SARDINE	49	-	-	-	54
MENHADEN	-	-	-	-	124
SALMON	1,499	-	-	-	1,499
SQUID	17	-	-	-	17
TUNA	151	-	-	-	154
OTHER	109	-	-	-	123
BAG NETS	-	-	-	(1)	89
BUTTERFLY NETS	-	-	-	-	865
BEAM TRAWLS	18	-	-	-	18
OTTER TRAWLS:					
CRAB	-	-	-	-	449
FISH	298	15	1	-	1,386
LOBSTER	-	-	-	-	124
SCALLOP	-	-	-	-	22
SHRIMP	112	-	-	-	13,306
WEIRS	1	3	79	-	144
POUND NETS	2	328	2	-	4,243
TRAP NETS	-	910	130	-	1,040
FLOATING TRAPS	4	-	-	-	35
FYKE AND HOOP NETS	-	301	68,313	-	83,779

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	PACIFIC	GREAT LAKES	MISSISSIPPI RIVER AND TRIBUTARIES	HAWAII 1/	TOTAL, EXCLUSIVE OF DUPLICATION
			NUMBER		
GEAR - CONTINUED:					
POTS AND TRAPS:					
CONCH	-	-	-	-	4,606
CRAB	183,529	-	-	(1)	719,153
CRAWFISH	3,460	-	61,522	-	86,382
EEL	-	-	-	(1)	7,[illegible]
FISH	258	-	5,627	(1)	51,5[illegible]
LOBSTER	12,000	-	-	(1)	1,674,14[illegible]
OCTOPUS	278	-	-	(1)	7[illegible]
SHRIMP	2,935	-	130	(1)	[illegible],465
TURTLE	-	-	65	-	461
BOX TRAPS	-	-	-	-	[illegible]
WIRE BASKETS	-	-	3,21[illegible]	-	[illegible],21[illegible]
SLAT TRAPS	-	-	1,131	-	1,131
GILL NETS:					
ANCHOR, SET, OR STAKE	2,921	1,019	6,539	(1)	16,454
DRIFT	6,714	-	-	-	8,499
RUNAROUND	-	-	-	-	1,229
TRAMMEL NETS	8	-	6,788	-	7,720
HOOKS AND BAITS	1,446,774	57,300	3,934,191	(1)	8,978,512
ELECTRICAL DEVICES	-	-	2	-	[illegible]
DIP NETS	(2)	-	297	-	11,521
BRAIL OR SCOOP NETS	279	-	-	-	279
LIFT NETS	-	-	-	(1)	(1)
REEF NETS	54	-	-	-	54
WHEELS	5	-	-	-	5
CAST NETS	-	-	-	(1)	[illegible]0
HARPOONS	97	-	-	-	159
SPEARS	-	-	-	(1)	394
SCRAPES	-	-	-	-	197
DREDGES:					
CLAM	6	-	-	-	507
CONCH	-	-	-	-	1
CRAB	-	-	-	-	324
MUSSEL	-	-	-	-	14
OYSTER	69	-	-	-	2,037
SCALLOP	11	-	-	-	4,562
OTHER	-	-	-	-	
TONGS AND OYSTER GRABS	36	-	181	-	1[illegible],4[illegible]4
RAKES	-	-	-	-	5,6[illegible]0
HOES	-	-	-	-	4,776
FORKS	-	-	-	-	67
SHOVELS	617	-	-	-	617
BRUSH TRAPS	-	-	-	-	41,730
CROWFOOT BARS	-	-	478	-	478
GRABS, FROG	-	-	-	-	[illegible]
HOOKS, SPONGE	-	-	-	-	56
DIVING OUTFITS	602	-	71	-	7[illegible]9

1/ DATA ON THE NUMBER OF GEAR OPERATED IN HAWAII ARE NOT AVAILABLE.

2/ INCLUDED WITH BRAIL OR SCOOP NETS.

SUMMARY OF U.S. FISHING VESSELS, BY TONNAGE GROUPS, 1970

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES	HAWAII	TOTAL, EXCLUSIVE OF DUPLI-CATION
	NUMBER								
5 - 9	29	34	1,044	161	250	1,031	29	4	2,570
10 - 19	131	104	335	244	953	2,301	105	27	4,184
20 - 29	98	65	60	158	471	752	58	19	1,655
30 - 39	80	52	26	168	353	423	21	12	1,093
40 - 49	53	44	17	151	354	316	14	10	907
50 - 59	35	36	14	79	268	154	2	5	546
60 - 69	41	27	12	89	474	73	-	1	665
70 - 79	41	25	10	41	246	42	1	1	364
80 - 89	23	8	2	29	177	30	-	-	244
90 - 99	24	17	2	37	343	41	-	1	440
100 - 109	14	3	2	5	88	28	-	-	134
110 - 119	25	11	5	3	58	20	-	-	116
120 - 129	10	7	2	4	72	11	-	-	102
130 - 139	14	1	1	1	90	12	-	-	118
140 - 149	5	2	2	3	21	10	-	-	39
150 - 159	12	4	1	1	13	7	-	-	34
160 - 169	6	2	1	-	7	20	-	-	34
170 - 179	10	2	-	-	8	8	-	-	26
180 - 189	2	2	-	-	5	17	-	-	25
190 - 199	17	6	9	4	9	33	-	-	70
200 - 209	-	-	2	4	-	-	-	-	4
210 - 219	1	-	-	1	1	1	-	-	4
220 - 229	-	-	1	-	4	-	-	-	5
230 - 239	2	-	-	-	1	2	-	-	5
240 - 249	1	1	2	5	2	-	-	-	8
250 - 259	-	-	7	6	2	1	-	-	11
260 - 269	-	-	6	6	1	2	1	-	9
270 - 279	-	-	-	-	1	5	-	-	6
280 - 289	-	-	1	1	2	1	-	-	5
290 - 299	2	1	-	1	2	6	-	-	11
300 - 309	2	-	-	-	-	1	-	-	3
310 - 319	4	-	-	-	2	4	-	-	10
320 - 329	2	-	-	1	1	4	-	-	8
330 - 339	-	-	-	-	-	4	-	-	4
340 - 349	-	-	-	-	-	3	-	-	3
350 - 359	-	-	-	-	-	4	-	-	4
360 - 369	-	-	-	-	2	3	-	-	5
370 - 379	-	-	-	-	3	1	-	-	4
380 - 389	-	1	-	-	2	2	-	-	5
390 - 399	-	-	-	-	-	1	-	-	1
400 - 409	-	-	-	-	-	1	-	-	1
410 - 419	-	-	-	-	2	1	-	-	3
420 - 429	-	-	-	-	-	2	-	-	2
430 - 439	-	-	-	-	1	6	-	-	7
440 - 449	-	-	-	-	-	3	-	-	3
450 - 459	1	-	-	1	1	-	-	-	2
460 - 469	-	-	-	-	1	2	-	-	3
470 - 479	-	-	-	-	5	1	-	-	6
480 - 489	-	-	-	-	2	3	-	-	5
490 - 499	-	-	-	-	-	3	-	-	3
500 - 509	-	-	-	-	1	-	-	-	1
510 - 519	-	-	-	-	2	-	-	-	2
520 - 529	-	-	-	1	5	-	-	-	5
530 - 539	-	-	-	1	10	1	-	-	11
540 - 549	-	-	1	1	-	-	-	-	1
550 - 559	-	-	1	1	1	1	-	-	3
560 - 569	-	-	-	-	-	1	-	-	1
570 - 579	-	-	-	-	-	1	-	-	1
580 - 589	-	-	-	-	-	1	-	-	1
590 - 599	-	-	-	-	-	1	-	-	1
600 - 609	-	-	-	1	1	-	-	-	1
610 - 619	-	-	-	1	1	-	-	-	1
630 - 639	-	-	-	-	-	2	-	-	2
640 - 649	-	-	-	1	1	-	-	-	1
670 - 679	-	-	-	-	-	9	-	-	9
690 - 699	-	-	-	-	-	1	-	-	1
710 - 719	-	-	-	-	-	1	-	-	1
720 - 729	-	-	-	-	-	5	-	-	5
730 - 739	-	-	-	-	-	1	-	-	1
750 - 759	-	-	-	-	-	2	-	-	2
760 - 769	-	-	-	-	-	1	-	-	1
770 - 779	-	-	-	-	-	1	-	-	1
790 - 799	-	-	-	-	-	1	-	-	1

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF U.S. FISHING VESSELS, BY TONNAGE GROUPS, 1970 - Continued

GROSS TONNAGE	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	- - - - -	- - - - -	- - - - -	- - - - -	NUMBER	- - - - -	- - - - -	- - - - -	- - - - -
800 - 809	-	-	-	-	-	1	-	-	[illegible]
830 - 839	-	-	-	-	-	1	-	-	[illegible]
840 - 849	-	-	-	-	-	1	-	-	[illegible]
860 - 869	-	-	-	-	-	8	-	-	8
880 - 889	-	-	-	-	-	2	-	-	2
910 - 919	-	-	-	-	-	1	-	-	[illegible]
920 - 929	-	-	-	-	-	2	-	-	2
970 - 979	-	-	-	-	-	1	-	-	1
990 - 999	-	-	-	-	-	1	-	-	1
1130 - 1139	-	-	-	-	-	1	-	-	1
1590 - 1599	1	-	-	-	-	1	-	-	2
TOTAL VESSELS . .	686	455	1,566	1,211	4,320	5,446	231	80	13,591
TOTAL GROSS TONNAGE.	43,798	21,511	26,763	53,564	238,003	195,999	4,702	2,278	554,785

1/ INCLUDES SAILING VESSELS.

LENGTH DISTRIBUTION OF U.S. FISHING VESSELS, 1970

LENGTH IN FEET	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
	- - - - -	- - - - -	- - - - -	- - - - -	NUMBER	- - - - -	- - - - -	- - - - -	- - - - -
10 - 19	-	-	-	-	1	-	-	-	1
20 - 29	12	8	4	45	48	[illegible]	[illegible]	1	[illegible]
30 - 39	125	93	1,072	343	832	[illegible]	146	17	[illegible]
40 - 49	119	94	307	310	909	[illegible]	60	24	[illegible]
50 - 59	120	78	86	259	947	[illegible]	15	14	1,607
60 - 69	102	90	32	191	1,223	174	1	11	1,705
70 - 79	86	46	14	16	263	[illegible]	-	12	[illegible]
80 - 89	59	19	8	4	12	77	-	1	[illegible]
90 - 99	25	8	6	3	3	[illegible]	-	-	[illegible]
100 - 109	21	16	10	3	3	[illegible]	-	-	[illegible]
110 - 119	6	-	1	-	4	[illegible]	-	-	[illegible]
120 - 129		1	22	23	11	[illegible]	1	-	[illegible]
130 - 139	[illegible]	-	-	2	13	19	-	-	[illegible]
140 - 149	-	2	1	3	12	[illegible]	-	-	[illegible]
150 - 159	-	-	-	1	10	[illegible]	-	-	[illegible]
160 - 169	-	-	2	5	24	[illegible]	-	-	[illegible]
170 - 179	-	-	-	-	1	[illegible]	-	-	[illegible]
180 - 189	-	-	-	-	-	[illegible]	-	-	[illegible]
190 - 199	-	-	-	3	4	[illegible]	-	-	[illegible]
200 - 299	1	-	-	-	-	1	-	-	[illegible]
300 - 399	-	-	1	-	-	[illegible]	-	-	[illegible]
TOTAL	686	455	1,566	1,211	4,320	5,446	231	80	13,591

1/ INCLUDES SAILING VESSELS.

U.S. FISHING VESSELS BY YEAR BUILT AND REGION, 1970

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES	HAWAII	TOTAL, EXCLUSIVE OF DUPLICATION
					NUMBER				
1825	-	-	-	1	-	-	-	-	1
1866	-	1	-	-	-	-	-	-	1
1872	-	1	-	-	-	-	-	-	1
1873	-	1	-	-	-	-	-	-	1
1875	-	1	1	-	-	-	-	-	1
1876	-	2	-	-	-	-	-	-	2
1883	-	1	-	-	-	-	-	-	1
1884	1	-	1	-	-	-	-	-	2
1886	-	1	1	-	-	-	-	-	2
1887	2	1	-	-	-	1	-	-	3
1888	-	1	-	-	1	-	-	-	2
1889	-	-	-	-	1	-	-	-	1
1890	-	-	1	-	-	-	-	-	1
1891	-	-	1	-	1	-	-	-	2
1893	-	1	-	-	1	1	-	-	3
1894	-	-	-	-	-	1	-	-	1
1896	-	-	2	1	-	-	-	-	3
1897	-	-	1	-	-	-	-	-	1
1898	-	-	-	1	1	-	-	-	2
1899	-	-	-	1	-	-	-	-	1
1900	-	1	1	-	3	1	-	-	6
1901	1	2	8	1	3	1	-	-	16
1902	2	1	1	-	-	1	-	-	5
1903	1	5	-	-	1	3	-	-	10
1904	-	-	5	-	3	1	-	-	9
1905	-	3	5	-	6	1	-	-	15
1906	2	4	5	-	4	4	-	-	19
1907	1	2	1	-	1	11	-	-	16
1908	-	-	3	-	-	6	-	-	9
1909	-	6	5	-	2	6	-	-	19
1910	1	3	2	-	-	9	-	-	14
1911	1	2	5	4	2	18	1	-	32
1912	-	1	5	1	3	35	1	-	45
1913	-	3	6	1	1	28	-	-	39
1914	2	-	6	-	2	33	1	-	44
1915	1	-	6	2	4	46	-	-	59
1916	-	2	2	-	2	21	-	-	27
1917	6	4	7	-	3	82	-	-	97
1918	3	3	6	1	4	63	-	-	75
1919	-	4	2	1	2	47	-	-	56
1920	1	3	7	2	3	75	-	-	91
1921	2	1	2	4	1	22	-	-	32
1922	3	3	8	5	3	16	1	-	38
1923	2	4	11	4	4	18	-	-	43
1924	10	7	12	2	19	43	-	-	90
1925	9	2	11	5	12	68	-	-	104
1926	6	4	9	1	12	85	2	1	119
1927	5	6	13	8	9	105	2	1	146
1928	11	5	14	3	20	118	-	3	172
1929	12	5	7	4	20	87	3	2	140
1930	9	10	11	15	11	67	3	2	125
1931	6	5	7	4	15	38	1	1	76
1932	10	2	10	5	8	20	2	-	57
1933	5	-	9	4	10	19	2	-	49
1934	3	2	17	3	10	29	4	1	69
1935	2	2	17	9	21	71	6	1	128
1936	8	5	21	11	38	49	8	1	139
1937	15	4	22	7	53	64	9	1	173
1938	10	8	25	11	51	72	5	2	174
1939	14	3	19	10	25	109	5	2	185
1940	12	5	34	5	36	101	6	2	200
1941	26	9	14	11	33	109	4	-	200
1942	13	19	18	21	24	154	2	1	241
1943	16	22	25	24	47	142	5	-	267
1944	41	15	35	37	72	240	9	2	434
1945	49	27	38	24	71	230	19	-	446
1946	36	29	64	52	105	237	28	9	551
1947	30	17	46	49	116	222	24	12	510
1948	21	13	63	27	158	167	19	1	458
1949	21	8	49	49	73	162	7	2	365

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

U.S. FISHING VESSELS BY YEAR BUILT AND REGION, 1970 - Continued

YEAR BUILT	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE 1/	SOUTH ATLANTIC	GULF	PACIFIC	GREAT LAKES	HAWAII	TOTAL, EXCLUSIVE OF DUPLI-CATION
					NUMBER				
1950.	10	8	37	16	75	117	11	1	273
1951.	12	6	28	26	75	147	6	-	291
1952.	20	5	39	23	92	141	7	-	320
1953.	12	11	29	23	150	109	1	3	335
1954.	9	10	42	30	162	52	2	-	303
1955.	10	5	44	29	68	79	3	2	230
1956.	10	9	68	44	94	68	3	-	284
1957.	8	9	65	60	148	72	3	-	336
1958.	6	4	49	56	211	56	8	-	367
1959.	15	5	63	31	90	64	5	1	263
1960.	6	7	48	15	68	56	2	-	197
1961.	11	7	31	21	81	73	-	3	220
1962.	9	3	21	21	86	86	-	-	223
1963.	10	8	31	30	148	97	-	1	308
1964.	14	5	25	23	162	107	-	4	327
1965.	14	3	37	21	230	104	-	6	410
1966.	26	10	44	38	252	137	-	2	485
1967.	20	7	47	55	311	137	-	1	550
1968.	13	11	25	51	355	143	1	4	579
1969.	11	12	26	49	206	150	-	4	437
1970.	7	4	26	35	106	39	-	1	214
UNKNOWN	1	4	14	83	19	53	-	-	173
TOTAL VESSELS	686	455	1,566	1,211	4,320	5,446	231	80	13,591

1/ INCLUDES SAILING VESSELS.

U.S. FISHING VESSELS BY GEAR AND CONSTRUCTION, 1970

GEAR	WOOD	STEEL	ALUMINUM	FIBERGLASS	OTHER	TOTAL
	NUMBER					
HAUL SEINES:						
COMMON	88	4	-	3	-	95
LONG	10	-	-	-	-	10
STOP SEINES	13	-	-	-	-	13
PURSE SEINES:						
ANCHOVY	31	2	-	-	-	33
HERRING	43	5	-	3	-	51
MACKEREL	53	1	-	-	-	54
MENHADEN	36	88	-	-	-	124
SALMON	966	72	1	22	-	1,061
TUNA	82	60	-	-	-	1
OTHER	62	27	-	-	-	89
LAMPARA NETS:						
MACKEREL	5	1	-	-	-	6
SQUID	16	-	-	-	-	16
OTHER	17	3	-	-	-	20
BAG NETS	4	-	-	-	-	4
BUTTERFLY NETS	15	-	-	-	-	15
BEAM TRAWLS:						
SHRIMP	12	-	-	-	-	12
OTHER	-	-	-	2	-	2
OTTER TRAWLS:						
CRAB	182	2	-	-	-	184
FISH	1,003	137	-	-	2	1,142
LOBSTER	101	22	-	-	1	124
SCALLOP	16	1	-	-	-	17
SHRIMP	3,865	725	3	18	3	4,614
POUND NETS:						
FISH	91	7	-	-	-	98
CRAB	5	-	-	-	-	5
TRAP NETS	12	34	-	-	-	46
FLOATING NETS	5	4	-	-	-	9
FYKE AND HOOP NETS, FISH	13	3	-	-	-	16
POTS AND TRAPS:						
CONCH	9	-	-	-	-	9
CRAB:						
BLUE	453	2	-	-	-	455
DUNGENESS	488	64	3	17	-	572
KING	182	91	-	6	-	279
OTHER	142	50	-	4	-	196
CRAWFISH	1	-	-	-	-	1
EEL	8	-	-	-	-	8
FISH	95	3	-	-	-	98
LOBSTER:						
AMERICAN	84	7	1	2	1	95
SPINY	151	4	-	2	74	231
OCTOPUS	10	3	-	-	-	13
SHRIMP	17	1	-	3	-	21
GILL NETS:						
ANCHOR, SET, OR STAKE:						
SALMON	25	6	-	3	-	34
OTHER	187	-	-	-	1	188
DRIFT:						
BARRACUDA	4	-	-	-	-	4
SALMON	785	45	12	132	-	974
SEA BASS	22	2	-	-	-	24
SHAD	1	-	-	-	-	1
OTHER	132	3	-	-	2	137
RUNAROUND	69	2	-	-	1	72
GREAT LAKES:						
1-1/4 - 2 INCH MESH	9	4	-	-	-	13
2-1/8 - 3-7/8 INCH MESH	49	106	-	-	-	155
4 - 7 INCH MESH	26	48	-	-	-	74
7-1/8 - 14 INCH MESH	-	4	-	-	-	4
TRAMMEL NETS	19	-	-	-	-	19
LINES:						
HAND:						
ALBACORE	230	70	-	3	-	303
ROCKFISHES	8	-	-	-	-	8
YELLOWFIN	33	28	-	1	-	62
OTHER	642	66	3	9	5	725
TROLL:						
SALMON	2,319	108	3	27	6	2,463
TUNA	1,014	125	3	16	1	1,159
OTHER	305	12	1	6	2	326
LONG OR SET WITH HOOKS	420	37	-	10	-	467
TROT WITH BAITS	181	-	-	-	-	181
DIP NETS, COMMON	21	5	-	-	-	26
BRAIL OR SCOOP NETS	(1)	-	-	-	-	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

U.S. FISHING VESSELS BY GEAR AND CONSTRUCTION, 1970 - Continued

GEAR	WOOD	STEEL	ALUMINUM	FIBERGLASS	OTHER	TOTAL
	NUMBER					
HARPOONS:						
SWORDFISH	64	2	-	1	-	[illegible]
WHALE	3	-	-	-	-	[illegible]
OTHER	2	-	-	-	-	[illegible]
SCRAPES	25	-	-	-	-	[illegible]
DREDGES:						
CLAM.	282	23	-	-	1	[illegible]
CONCH	1	-	-	-	-	1
CRAB.	177	-	-	-	-	[illegible]
OYSTER:						
COMMON.	708	16	-	-	1	[illegible]
SUCTION	-	1	-	-	-	1
SCALLOP:						
BAY	1	-	-	-	-	1
SEA	55	14	-	-	1	70
TONGS AND OYSTER GRABS:						
OYSTER.	737	[illegible]	-	1	-	740
OTHER	69	-	-	-	-	69
HOOKS, SPONGE	1	-	-	-	-	[illegible]
DIVING OUTFITS:						
ABALONE	20	1	-	1	-	22
SPONGE.	9	-	-	-	-	9
TOTAL, EXCLUSIVE OF DUPLICATION . . .	11,607	1,679	76	136	93	13,591

1/ INCLUDED WITH DIP NETS.

U.S. LANDINGS BY WATERS, FISHERMEN, CRAFT, PLANTS, AND EMPLOYMENT, BY STATES, 1970

STATE	MARINE WATERS AND COASTAL RIVERS		LAKES 1/		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL		FISHERMEN	FISHING CRAFT		WHOLESALE AND MANUFACTURING		
										VESSELS	BOATS	PLANTS	EMPLOYEES AVERAGE FOR SEASON	EMPLOYEES AVERAGE FOR YEAR
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS			NUMBER			
ALABAMA	29,620	9,937	-	-	2,496	382	32,116	10,319	2,363	461	999	73	1,950	1,156
ALASKA	545,326	96,118	-	-	-	-	545,326	96,118	19,529	2,583	8,800	108	6,500	3,000
ARKANSAS	-	-	-	-	10,981	2,346	10,981	2,346	6,094	-	6,252	27	128	86
CALIFORNIA	702,720	86,392	-	-	-	-	702,720	86,392	12,817	1,788	1,902	202	9,222	7,611
CONNECTICUT	4,803	1,653	-	-	-	-	4,803	1,653	872	37	614	9	45	36
DELAWARE	9,960	1,293	-	-	-	-	9,960	1,293	623	13	224	19	414	355
FLORIDA	182,777	41,440	9,937	1,826	-	-	192,714	43,266	9,665	1,595	4,088	442	6,242	5,358
GEORGIA	14,415	4,163	-	-	-	-	14,415	4,163	1,307	312	627	53	2,336	1,780
HAWAII	11,051	3,900	-	-	-	-	11,051	3,900	1,436	82	686	2/43	2/4,121	2/3,317
IDAHO	-	-	-	-	1,403	81	1,403	81	115	-	107	-	-	-
ILLINOIS	-	-	405	84	4,817	586	5,222	670	420	2	345	80	909	857
INDIANA	-	-	334	78	768	94	1,102	172	150	2	133	15	102	95
IOWA	-	-	-	-	3,445	365	3,445	365	447	-	459	19	114	94
KANSAS	-	-	-	-	632	31	632	31	81	-	12	7	144	120
KENTUCKY	-	-	-	-	3,116	497	3,116	497	671	-	645	14	117	113
LOUISIANA	1,107,251	61,072	-	-	8,077	1,444	1,115,328	62,516	12,849	1,956	5,994	277	5,562	3,849
MAINE	158,806	30,672	-	-	-	-	158,806	30,672	11,111	199	6,747	250	5,534	3,233
MARYLAND	79,897	18,566	-	-	-	-	79,897	18,566	11,668	760	8,856	205	4,812	3,790
MASSACHUSETTS	286,936	47,013	-	-	-	-	286,936	47,013	8,184	404	3,366	233	5,843	4,991
MICHIGAN	-	-	21,169	2,875	-	-	21,169	2,875	544	109	145	52	357	296
MINNESOTA	-	-	2,479	163	8,761	989	11,240	1,152	691	4	359	25	231	144
MISSISSIPPI	297,767	11,101	-	-	3,209	578	300,976	11,679	3,570	536	1,656	76	1,632	1,102
MISSOURI	-	-	-	-	800	157	800	157	460	-	436	35	484	412
MONTANA	-	-	-	-	956	82	956	82	15	-	12	-	-	-
NEBRASKA	-	-	-	-	232	12	232	12	149	-	153	8	40	39
NEW HAMPSHIRE	1,333	828	-	-	-	-	1,333	828	525	-	250	13	437	396
NEW JERSEY	97,547	12,505	-	-	-	-	97,547	12,505	2,705	272	1,272	102	2,077	1,756
NEW YORK	32,484	16,117	534	121	-	-	33,018	16,238	5,334	197	2,562	226	2,681	2,533
NORTH CAROLINA	173,442	9,365	-	-	-	-	173,442	9,365	4,114	475	2,397	176	2,208	1,381
NORTH DAKOTA	-	-	-	-	300	27	300	27	9	-	4	5	18	11
OHIO	-	-	8,420	1,101	1,014	64	9,434	1,165	328	34	209	35	559	526
OKLAHOMA	-	-	-	-	434	53	434	53	72	-	43	13	44	44
OREGON	98,089	22,962	-	-	-	-	98,089	22,962	4,653	1,123	1,670	60	3,203	2,279
PENNSYLVANIA	-	-	505	94	-	-	505	94	26	7	5	47	1,533	1,242
RHODE ISLAND	79,394	10,867	-	-	-	-	79,394	10,867	1,893	136	978	32	377	304
SOUTH CAROLINA	16,066	4,268	-	-	-	-	16,066	4,268	1,267	295	446	69	1,000	754
SOUTH DAKOTA	-	-	-	-	3,864	241	3,864	241	59	-	27	5	20	13
TENNESSEE	-	-	-	-	6,673	908	6,673	908	838	-	814	36	143	125
TEXAS	146,996	53,249	-	-	1,824	303	148,820	53,552	6,633	1,819	1,158	180	5,835	4,138
VIRGINIA	550,553	21,977	-	-	-	-	550,553	21,977	7,404	838	3,449	260	5,834	4,021
WASHINGTON	133,638	29,516	-	-	-	-	133,638	29,516	9,549	1,499	3,968	140	3,324	2,716
WEST VIRGINIA	-	-	-	-	14	6	14	6	8	-	8	-	-	-
WISCONSIN	-	-	37,715	1,916	11,035	668	48,750	2,584	1,209	85	802	64	681	617
TOTAL	4,760,871	594,974	81,498	8,258	74,851	9,914	4,917,220	613,146	3/140,538	3/13,591	3/73,570	2,735	86,612	64,690

1/ INCLUDES THE LANDINGS OF THE GREAT LAKES, THE INTERNATIONAL LAKES OF MINNESOTA, AND THE INLAND LAKES OF FLORIDA.

2/ AMERICAN SAMOA AND PUERTO RICO ARE INCLUDED WITH HAWAII.

3/ EXCLUSIVE OF DUPLICATION.

GENERAL REVIEW

LANDINGS BY REGION, 1970

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	3,076	63	19	1	21,111	445	11,621	196
AMBERJACK	-	-	1	(1)	-	-	39	2
ANCHOVIES	11	2	-	-	-	-	-	-
ANGELFISH	-	-	-	-	-	-	11	(1)
ANGLERFISH	140	7	26	2	-	-	-	-
BALLYHOO	-	-	-	-	-	-	159	37
BILLFISH	(1)	(1)	-	-	-	-	-	-
BLUEFISH	577	67	2,666	274	715	68	2,551	267
BLUE RUNNER	-	-	-	-	-	-	89	4
BONITO	123	49	16	2	3	(1)	7	1
BUTTERFISH	719	168	1,483	262	1,614	203	133	11
CABIO	-	-	-	-	2	(1)	21	2
CARP	2	(1)	70	5	221	6	92	3
CATFISH AND BULLHEADS	20	3	15	2	1,340	194	14,185	2,571
COD	52,651	5,649	567	92	7	1	-	-
CRAPPIE	-	-	-	-	6	(1)	-	-
CREVALLE	(1)	(1)	-	-	-	-	60	2
CROAKER	-	-	(1)	(1)	128	16	886	54
CUSK	1,351	101	-	-	-	-	-	-
DOLPHIN	-	-	-	-	-	-	21	5
DRUM:								
BLACK	-	-	5	(1)	80	7	144	13
RED	-	-	-	-	(1)	(1)	157	30
EELS:								
COMMON	188	45	406	98	1,494	300	73	8
CONGER	10	2	1	(1)	-	-	-	-
FLOUNDERS	103,908	15,427	10,579	1,627	2,675	716	3,397	830
FRIGATE MACKEREL	25	2	-	-	-	-	-	-
GARFISH	-	-	-	-	5	(1)	-	-
GIZZARD SHAD	-	-	-	-	14	(1)	-	-
GOATFISH	-	-	-	-	-	-	75	14
GROUPERS	-	-	-	-	-	-	698	145
GRUNTS	-	-	(1)	(1)	-	-	51	5
HADDOCK	26,881	6,044	8	1	-	-	-	-
HAKE:								
RED	1,308	51	893	52	12	(1)	-	-
WHITE	4,061	250	27	2	(1)	(1)	-	-
HALIBUT	198	119	-	-	-	-	-	-
HARVESTFISH	-	-	-	-	31	5	27	3
HERRING:								
SEA	66,262	1,161	468	13	11	(1)	-	-
THREAD	-	-	-	-	-	-	5,161	84
HICKORY SHAD	-	-	-	-	70	6	69	5
HOGCHOKER	-	-	-	-	3	(1)	-	-
HOGFISH	-	-	-	-	-	-	3	1
JEWFISH	-	-	-	-	-	-	21	3
KING WHITING OR "KINGFISH"	2	(1)	56	10	102	12	2,095	252
LAUNCE	35	7	-	-	-	-	-	-
MACKEREL:								
ATLANTIC	6,057	310	1,681	92	276	14	-	-
KING	-	-	-	-	5	1	4,351	1,018
SPANISH	(1)	(1)	(1)	(1)	201	31	3,639	468
TOTAL MACKEREL	6,057	310	1,681	92	482	46	7,990	1,486
MENHADEN	10,506	136	31,470	626	449,797	7,638	136,253	1,940
MOJARRA	-	-	-	-	-	-	118	9
MULLET	(1)	(1)	-	-	4	(1)	4,338	269
OCEAN PERCH, ATLANTIC	55,290	2,724	-	-	-	-	-	-
OCEAN POUT	(1)	(1)	-	-	-	-	-	-
PERMIT	-	-	-	-	-	-	3	1
PIGFISH	-	-	-	-	22	2	195	15
PIKE OR PICKEREL	-	-	-	-	1	(1)	-	-
POLLOCK	8,788	691	3	(1)	-	-	-	-
POMPANO	-	-	-	-	1	(1)	248	294
SALMON, ATLANTIC	(1)	(1)	-	-	-	-	-	-
SAND PERCH	-	-	-	-	-	-	2	(1)
SCUP OR PORGY	3,445	942	4,331	967	2,081	363	575	69
SEA BASS, BLACK (ATLANTIC)	76	41	378	133	1,684	382	2,024	413
SEA CATFISH	-	-	-	-	-	-	11	(1)
SEA ROBIN	138	2	75	4	40	(1)	-	-
SEA TROUT OR WEAKFISH:								
GRAY	22	4	2,404	240	2,464	283	2,737	191
SPOTTED	-	-	-	-	66	19	1,135	342

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SHAD	186	55	314	41	5,151	422	1,851	415
SHARKS:								
GRAYFISH	24	1	120	11	89	3	-	-
UNCLASSIFIED	5	(1)	2	(1)	53	1	10	(1)
TOTAL SHARKS	29	1	122	11	142	4	10	(1)
SHEEPSHEAD, SALT-WATER	-	-	-	-	-	-	224	22
SILVERSIDES	-	-	93	19	-	-	-	-
SKATES	166	8	13	1	-	-	-	-
SMELT	145	43	-	-	-	-	-	-
SNAPPERS:								
LANE	-	-	-	-	-	-	6	2
MANGROVE	-	-	-	-	-	-	90	31
MUTTON	-	-	-	-	-	-	162	82
RED	-	-	(1)	(1)	-	-	603	402
VERMILION	-	-	-	-	-	-	20	10
YELLOWTAIL	-	-	-	-	-	-	209	85
SPADEFISH	-	-	(1)	(1)	-	-	2	(1)
SPOT	-	-	(1)	(1)	6,446	627	3,304	409
STRIPED BASS	1,442	378	1,615	423	5,759	1,241	2,320	479
STURGEON, COMMON	12	(1)	27	4	26	5	130	21
SUCKERS	-	-	-	-	(1)	(1)	5	1
SUNFISH	-	-	-	-	8	1	-	-
SWELLFISH	-	-	197	16	1,522	66	117	5
SWORDFISH	268	163	18	10	-	-	-	-
TAUTOG	107	6	96	6	1	(1)	-	-
THIMBLE-EYED MACKEREL	3	(1)	-	-	-	-	-	-
TILEFISH	96	19	29	5	3	(1)	6	1
TRIGGERFISH	-	-	-	-	-	-	2	(1)
TRIPLETAIL	-	-	-	-	-	-	7	1
TUNA:								
BLUEFIN	3,220	454	3,111	468	-	-	-	-
LITTLE	247	25	7	1	-	-	-	-
TOTAL TUNA	3,467	479	3,118	469	-	-	-	-
TURBOT	5	1	-	-	-	-	-	-
WARSAW	-	-	-	-	-	-	35	7
WHITE PERCH	50	10	259	48	1,926	303	211	30
WHITING	40,131	3,386	4,321	496	64	7	-	-
WOLFFISH	598	34	-	-	-	-	-	-
YELLOW PERCH	-	-	1	(1)	111	14	43	6
UNCLASSIFIED:								
FOR FOOD	6,878	728	207	21	75	8	312	26
FOR BAIT, REDUCTION, AND ANIMAL FOOD	51,609	601	26	1	3,738	53	2,206	23
TOTAL FISH	451,062	39,979	68,104	6,076	511,258	13,463	209,350	11,635
SHELLFISH ET AL.								
CRABS:								
BLUE:								
HARD	(1)	(1)	1,359	220	67,351	4,475	42,701	2,772
SOFT AND PEELER	-	-	35	9	2,490	1,008	60	23
GREEN	52	7	-	-	-	-	-	-
ROCK	1,748	109	54	3	-	-	-	-
STONE	-	-	-	-	-	-	112	70
TOTAL CRABS	1,800	116	1,448	232	69,841	5,483	42,873	2,865
HORSESHOE CRABS	16	2	-	-	-	-	-	-
LOBSTERS:								
AMERICAN (NORTHERN)	30,413	29,704	3,483	3,586	251	169	5	5
SPINY	-	-	-	-	-	-	3,051	1,851
SHRIMP	23,522	4,697	-	-	-	-	20,609	11,388
CLAMS:								
HARD	2,628	2,117	10,571	10,577	1,899	1,189	437	232
OCEAN QUAHOG	1,747	305	-	-	-	-	-	-
RANGIA	-	-	-	-	-	-	54	16
RAZOR	4	2	5	2	-	-	-	-
SOFT	6,535	3,472	143	64	6,221	2,434	-	-
SURF	163	35	52,585	6,110	14,570	1,585	-	-
TOTAL CLAMS	11,077	5,931	63,304	16,753	22,690	5,208	491	248
CONCHS	363	101	225	35	368	74	-	-
MUSSELS, SEA	467	98	200	60	-	-	-	-
OCTOPUS	-	-	-	-	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
SHELLFISH ET AL.-CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
OYSTERS, MARKET, EASTERN:								
PUBLIC	13	27	36	39	19,056	11,137	317	218
PRIVATE	177	376	1,377	1,725	5,612	3,943	1,309	756
TOTAL OYSTERS	190	403	1,413	1,764	24,668	15,080	1,626	974
PERIWINKLES AND COCKLES	40	10	-	-	-	-	-	-
SCALLOPS:								
BAY	1,101	1,704	365	470	-	-	130	91
CALICO	-	-	-	-	-	-	1,833	729
SEA	4,467	6,028	635	835	750	995	-	-
TOTAL SCALLOPS	5,568	7,732	1,000	1,305	750	995	1,963	820
SQUID	1,095	159	756	94	432	27	27	2
SEA URCHINS	60	4	-	-	-	-	-	-
TERRAPIN	-	-	1	(1)	8	4	-	-
TURTLES:								
GREEN, SEA	-	-	-	-	-	-	8	1
LOGGERHEAD	-	-	(1)	(1)	-	-	4	1
SNAPPER	-	-	56	10	184	40	22	3
SOFT-SHELL	-	-	-	-	-	-	127	11
UNCLASSIFIED	-	-	1	(1)	-	-	-	-
TOTAL TURTLES	-	-	57	10	184	40	161	16
IRISH MOSS	3,898	117	-	-	-	-	-	-
SPONGES	-	-	-	-	-	-	11	36
BLOODWORMS	845	1,216	-	-	-	-	-	-
SANDWORMS	856	764	-	-	-	-	-	-
TOTAL SHELLFISH ET AL.	80,210	51,054	71,887	23,839	119,192	27,080	70,817	18,205
GRAND TOTAL	531,272	91,033	139,991	29,915	630,450	40,543	280,167	29,840

SPECIES	GULF		PACIFIC		GREAT LAKES	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	251	10	-	-	33,461	381
AMBERJACK	20	2	-	-	-	-
ANCHOVIES	-	-	192,928	2,171	-	-
ANGELFISH	6	(1)	-	-	-	-
ARCTIC CHAR	-	-	9	1	-	-
BALLYHOO	268	45	-	-	-	-
BARRACUDA	1	(1)	25	7	-	-
BLUEFISH	694	66	-	-	-	-
BLUE PIKE	-	-	-	-	(1)	(1)
BLUE RUNNER	1,378	62	-	-	-	-
BONITO	34	2	9,192	651	-	-
BOWFIN	9	(1)	-	-	1	(1)
BUFFALOFISH	801	108	-	-	27	4
BURBOT	-	-	-	-	253	9
CABEZONE	-	-	11	1	-	-
CABIO	106	9	-	-	-	-
CARP	37	1	1,081	31	6,583	316
CATFISH AND BULLHEADS	4,263	1,224	-	-	958	356
CHUBS	-	-	-	-	10,977	1,924
CIGARFISH	259	39	-	-	-	-
COD	-	-	2,984	200	-	-
CRAPPIE	-	-	-	-	14	5
CREVALLE	576	22	-	-	-	-
CROAKER	7,435	989	-	-	-	-
DOLLY VARDEN TROUT	-	-	2	(1)	-	-
DOLPHIN	63	7	-	-	-	-
DRUM:						
BLACK	1,344	125	-	-	-	-
RED	3,147	601	-	-	-	-
EEL, COMMON	-	-	-	-	50	13
FLOUNDERS	2,000	373	45,986	4,102	-	-
FLYING FISH	-	-	79	12	-	-
GARFISH	553	41	-	-	-	-
GIZZARD SHAD	-	-	-	-	5	(1)
GOLDFISH	-	-	-	-	163	8
GROUPERS	7,497	1,376	7	2	-	-
GRUNTS	315	44	-	-	-	-
HAKE, PACIFIC	-	-	9,019	78	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	GULF		PACIFIC		GREAT LAKES	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HALFMOON	-	-	39	9	-	-
HALIBUT	-	-	34,349	8,715	-	-
HERRING:						
LAKE	-	-	-	-	1,364	169
SEA	-	-	21,818	653	-	-
THREAD	520	16	-	-	-	-
HOGFISH	23	5	-	-	-	-
JACK MACKEREL	-	-	47,747	1,881	-	-
JEWFISH	209	19	-	-	-	-
KING CROAKER	-	-	565	45	-	-
KING WHITING OR "KINGFISH"	1,596	96	-	-	-	-
LAKE TROUT	-	-	-	-	275	160
LAMPREY	-	-	4	1	-	-
LINGCOD	-	-	5,911	459	-	-
MACKEREL:						
KING	2,372	320	-	-	-	-
PACIFIC	-	-	622	50	-	-
SPANISH	8,298	972	-	-	-	-
TOTAL MACKEREL	10,670	1,292	622	50	-	-
MENHADEN	1,209,467	23,744	-	-	-	-
MOJARRA	156	19	-	-	-	-
MULLET	26,963	2,289	-	-	-	-
OCEAN PERCH, PACIFIC	-	-	15,266	963	-	-
OPALEYE	-	-	22	4	-	-
PADDLEFISH	3	(1)	-	-	-	-
PERCH	-	-	490	73	-	-
PERMIT	12	1	-	-	-	-
PIGFISH	34	3	-	-	-	-
PIKE OR PICKEREL	-	-	(1)	(1)	91	11
POLLOCK	-	-	427	5	-	-
POMPANO	906	1,009	131	41	-	-
QUILLBACK	-	-	-	-	21	1
RATFISH	-	-	640	5	-	-
ROCK BASS	-	-	-	-	34	2
ROCKFISHES	-	-	27,610	1,832	-	-
SABLEFISH	-	-	6,474	607	-	-
SALMON:						
CHINOOK OR KING	-	-	31,685	17,562	-	-
CHUM OR KETA	-	-	57,396	7,294	-	-
PINK	-	-	117,762	15,572	-	-
RED OR SOCKEYE	-	-	159,568	41,071	-	-
SILVER OR COHO	-	-	43,708	17,188	2,243	315
TOTAL SALMON	-	-	410,119	98,687	2,243	315
SARDINE, PACIFIC	-	-	442	101	-	-
SAUGER	-	-	-	-	17	3
SAWFISH	2	(1)	-	-	-	-
SCULPIN	-	-	180	49	-	-
SCUP OR PORGY	72	10	-	-	-	-
SEA BASS:						
BLACK (ATLANTIC)	149	17	-	-	-	-
BLACK (PACIFIC)	-	-	130	30	-	-
WHITE	-	-	1,101	386	-	-
SEA CATFISH	418	25	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	4,925	1,374	-	-	-	-
WHITE	1,253	85	-	-	-	-
SHAD	-	-	724	87	-	-
SHARKS:						
GRAYFISH	-	-	496	3	-	-
UNCLASSIFIED	12	(1)	437	53	-	-
TOTAL SHARKS	12	(1)	933	56	-	-
SHEEFISH	-	-	3	1	-	-
SHEEPSHEAD:						
FRESH-WATER	286	33	-	-	1,060	53
SALT-WATER	914	67	4	(1)	-	-
SKATES	-	-	407	6	-	-
SMELT	-	-	2,055	189	3,555	96
SNAPPERS:						
LANE	14	3	-	-	-	-
MANGROVE	442	112	-	-	-	-
MUTTON	234	85	-	-	-	-
RED	8,537	3,829	-	-	-	-
VERMILION	118	46	-	-	-	-
YELLOWTAIL	987	384	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

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LANDINGS BY REGION, 1970 - Continued

SPECIES	GULF		PACIFIC		GREAT LAKES	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SPANISH SARDINES	421	21	-	-	-	-
SPOT	336	28	-	-	-	-
STEELHEAD TROUT	-	-	507	191	-	-
STRIPED BASS	-	-	50	8	-	-
STURGEON, COMMON	18	2	566	89	(1)	(1)
SUCKERS	-	-	-	-	1,444	46
SUNFISH	-	-	-	-	10	2
SWORDFISH	346	249	945	534	-	-
TENPOUNDER	684	22	-	-	-	-
TILEFISH	5	1	-	-	-	-
TOMCOD	-	-	161	2	-	-
TRIGGERFISH	24	2	-	-	-	-
TRIPLETAIL	11	1	-	-	-	-
TULLIBEE	-	-	-	-	694	24
TUNA:						
ALBACORE	-	-	56,120	14,998	-	-
BLUEFIN	-	-	8,655	1,596	-	-
SKIPJACK	-	-	76,890	12,148	-	-
YELLOWFIN	-	-	236,705	42,752	-	-
TOTAL TUNA	-	-	378,370	71,494	-	-
TURBOT	-	-	28	2	-	-
WARSAW	187	24	-	-	-	-
WHITEBAIT	-	-	250	31	-	-
WHITE BASS	-	-	-	-	1,103	275
WHITEFISH:						
COMMON	-	-	63	12	2,375	1,338
MENOMINEE	-	-	-	-	198	41
WHITE PERCH	-	-	-	-	111	28
YELLOW PERCH	-	-	-	-	4,283	762
YELLOW PIKE	-	-	-	-	191	90
YELLOWTAIL	-	-	184	25	-	-
UNCLASSIFIED:						
FOR FOOD	1,397	125	416	124	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	101,085	1,862	2,288	62	-	-
TOTAL FISH	1,404,493	42,046	1,223,364	194,765	71,561	6,432
SHELLFISH ET AL.						
CRABS:						
BLUE:						
HARD	33,999	2,850	-	-	-	-
SOFT AND PEELER	90	79	-	-	-	-
DUNGENESS	-	-	58,508	12,077	-	-
KING	-	-	52,061	13,190	-	-
ROCK	-	-	538	60	-	-
SNOW	-	-	14,473	1,417	-	-
STONE	1,502	770	-	-	-	-
TOTAL CRABS	35,591	3,699	125,580	26,744	-	-
CRAWFISH, FRESH-WATER	1,351	403	70	23	-	-
LOBSTERS, SPINY	7,064	4,207	225	268	-	-
SHRIMP	230,474	108,186	92,859	5,483	-	-
ABALONE	-	-	580	948	-	-
CLAMS:						
GEODUCK	-	-	21	13	-	-
HARD	10	5	470	224	-	-
HORSE	-	-	8	1	-	-
RAZOR	-	-	358	313	-	-
SOFT	-	-	9	12	-	-
SUNRAY VENUS	760	76	-	-	-	-
MIXED	-	-	6	7	-	-
TOTAL CLAMS	770	81	872	570	-	-
OCTOPUS	-	-	25	3	-	-
OYSTERS, MARKET:						
EASTERN:						
PUBLIC	9,243	3,952	-	-	-	-
PRIVATE	8,471	3,590	17	49	-	-
PACIFIC	-	-	7,915	3,497	-	-
WESTERN	-	-	59	176	-	-
TOTAL OYSTERS	17,714	7,542	7,991	3,722	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	GULF		PACIFIC		GREAT LAKES	
SHELLFISH ET AL.-CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SCALLOPS:						
BAY	104	56	-	-	-	-
SEA	-	-	1,452	1,495	-	-
TOTAL SCALLOPS	104	56	1,452	1,495	-	-
SQUID	55	6	24,591	667	-	-
MOLLUSKS, UNCLASSIFIED	-	-	109	47	-	-
TERRAPIN	(1)	(1)	-	-	-	-
TURTLES:						
BABY	(1)	1	-	-	-	-
GREEN	413	90	-	-	-	-
LOGGERHEAD	22	3	-	-	-	-
SNAPPER	14	4	-	-	-	-
TOTAL TURTLES	449	98	-	-	-	-
FROGS	7	4	-	-	-	-
KELP (WITH HERRING EGGS)	-	-	230	115	-	-
SPONGES	32	253	-	-	-	-
TOTAL SHELLFISH ET AL.	293,611	124,535	254,584	40,085	-	-
WHALE PRODUCTS:						
MEAL	-	-	662	44	-	-
MEAT	-	-	483	48	-	-
OIL:						
SPERM	-	-	602	40	-	-
WHALE	-	-	78	6	-	-
TOTAL WHALE PRODUCTS	-	-	1,825	138	-	-
GRAND TOTAL	1,698,104	166,581	1,479,773	234,988	71,561	6,432

SPECIES	MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	-	-	-	-	69,539	1,096
AMBERJACK	-	-	68	26	128	30
ANCHOVIES	-	-	-	-	192,939	2,173
ANGELFISH	-	-	-	-	17	(1)
ANGLERFISH	-	-	-	-	166	9
ARCTIC CHAR	-	-	-	-	9	1
BALLYHOO	-	-	-	-	427	82
BARRACUDA	-	-	8	3	34	10
BILLFISH	-	-	-	-	(1)	(1)
BLUEFISH	-	-	-	-	7,203	742
BLUE PIKE	-	-	-	-	(1)	(1)
BLUE RUNNER	-	-	-	-	1,467	66
BONITO	-	-	-	-	9,375	705
BOWFIN	170	6	-	-	180	6
BUFFALOFISH	21,261	2,969	-	-	22,089	3,081
BURBOT	63	7	-	-	316	16
BUTTERFISH	-	-	-	-	3,949	644
CABEZONE	-	-	-	-	11	1
CABIO	-	-	-	-	129	11
CARP	18,476	663	-	-	26,562	1,025
CATFISH AND BULLHEADS	14,436	3,891	-	-	35,217	8,241
CHUBS	76	2	-	-	11,053	1,926
CIGARFISH	-	-	-	-	259	39
COD	-	-	-	-	56,209	5,942
CRAPPIE	35	11	-	-	55	16
CREVALLE	-	-	68	37	704	61
CROAKER	-	-	-	-	8,449	1,059
CUSK	-	-	-	-	1,351	101
DOLLY VARDEN TROUT	-	-	-	-	2	(1)
DOLPHIN	-	-	64	55	148	67
DRUM:						
BLACK	-	-	-	-	1,573	145
RED	-	-	-	-	3,304	631
EELS:						
COMMON	(1)	(1)	-	-	2,211	464
CONGER	-	-	1	(1)	12	2
FLOUNDERS	-	-	-	-	168,545	23,075
FLYING FISH	-	-	-	-	79	12
FRIGATE MACKEREL	-	-	-	-	25	2
GARFISH	680	44	-	-	1,238	85
GIZZARD SHAD	662	21	-	-	681	21
GOATFISH	-	-	74	49	149	63
GOLDFISH	2	(1)	-	-	165	8

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
GROUPERS	-	-	-	-	8,202	1,523
GRUNTS	-	-	-	-	366	49
HADDOCK	-	-	-	-	26,889	6,045
HAKE:						
PACIFIC	-	-	-	-	9,019	78
RED	-	-	-	-	2,213	103
WHITE	-	-	-	-	4,088	252
HALFMOON	-	-	-	-	39	9
HALIBUT	-	-	-	-	34,547	8,834
HARVESTFISH	-	-	-	-	58	8
HERRING:						
LAKE	-	-	-	-	1,364	169
SEA	-	-	-	-	88,559	1,827
THREAD	-	-	-	-	5,681	100
HICKORY SHAD	-	-	-	-	139	11
HOGCHOKER	-	-	-	-	3	(1)
HOGFISH	-	-	-	-	26	6
JACK MACKEREL	-	-	-	-	47,747	1,881
JEWFISH	-	-	-	-	230	22
KING CROAKER	-	-	-	-	565	45
KING WHITING OR "KINGFISH"	-	-	-	-	3,851	370
LAKE TROUT	-	-	-	-	275	160
LAMPREY	-	-	-	-	4	1
LAUNCE	-	-	-	-	35	7
LINGCOD	-	-	-	-	5,911	459
MACKEREL:						
ATLANTIC	-	-	-	-	8,014	416
KING	-	-	-	-	6,728	1,339
PACIFIC	-	-	-	-	622	50
SPANISH	-	-	-	-	12,138	1,471
TOTAL MACKEREL	-	-	-	-	27,502	3,276
MACKEREL SCAD	-	-	169	98	169	98
MARLIN	-	-	540	293	540	293
MENHADEN	-	-	-	-	1,837,493	34,084
MOJARRA	-	-	-	-	274	28
MOONEYE	157	39	-	-	157	39
MULLET	-	-	19	22	31,324	2,580
OCEAN PERCH:						
ATLANTIC	-	-	-	-	55,290	2,724
PACIFIC	-	-	-	-	15,266	963
OCEAN POUT	-	-	-	-	(1)	(1)
OPALEYE	-	-	-	-	22	4
PADDLEFISH	605	68	-	-	608	68
PERCH	-	-	-	-	490	73
PERMIT	-	-	-	-	15	2
PIGFISH	-	-	-	-	251	20
PIKE OR PICKEREL	37	7	-	-	129	18
POLLOCK	-	-	-	-	9,218	696
POMPANO	-	-	-	-	1,286	1,344
QUILLBACK	451	26	-	-	472	27
RATFISH	-	-	-	-	640	5
ROCK BASS	-	-	-	-	34	2
ROCKFISHES	-	-	-	-	27,610	1,832
RUDDERFISH	-	-	3	2	3	2
SABLEFISH	-	-	-	-	6,474	607
SALMON:						
ATLANTIC	-	-	-	-	(1)	(1)
CHINOOK OR KING	-	-	-	-	31,685	17,562
CHUM OR KETA	-	-	-	-	57,396	7,294
PINK	-	-	-	-	117,762	15,572
RED OR SOCKEYE	60	34	-	-	159,628	41,105
SILVER OR COHO	2	1	-	-	45,953	17,504
TOTAL SALMON	62	35	-	-	412,424	99,037
SAND PERCH	-	-	-	-	2	(1)
SARDINE, PACIFIC	-	-	1	(1)	443	101
SAUGER	-	-	-	-	17	3
SAWFISH	-	-	-	-	2	(1)
SCULPIN	-	-	-	-	180	49
SCUP OR PORGY	-	-	-	-	10,504	2,351
SEA BASS:						
BLACK (ATLANTIC)	-	-	-	-	4,311	986
BLACK (PACIFIC)	-	-	40	25	170	55
WHITE	-	-	-	-	1,101	386
SEA CATFISH	-	-	-	-	429	25
SEA ROBIN	-	-	-	-	253	6

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LANDINGS BY REGION, 1970 - Continued

SPECIES	MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	7,627	718
SPOTTED	-	-	-	-	6,126	1,735
WHITE	-	-	-	-	1,253	85
SHAD	1,211	33	-	-	9,437	1,053
SHARKS:						
GRAYFISH	-	-	-	-	729	18
UNCLASSIFIED	-	-	-	-	519	54
TOTAL SHARKS	-	-	-	-	1,248	72
SHEEFISH	-	-	-	-	3	1
SHEEPSHEAD:						
FRESH-WATER	5,645	399	-	-	6,991	485
SALT-WATER	-	-	-	-	1,142	89
SILVERSIDES	-	-	-	-	93	19
SKATES	-	-	-	-	586	15
SMELT	-	-	-	-	5,755	328
SNAPPERS:						
LANE	-	-	-	-	20	5
MANGROVE	-	-	-	-	532	143
MUTTON	-	-	-	-	396	167
RED	-	-	-	-	9,140	4,231
VERMILION	-	-	-	-	138	56
YELLOWTAIL	-	-	-	-	1,196	469
UNCLASSIFIED	-	-	157	154	157	154
SPADEFISH	-	-	-	-	2	(1)
SPANISH SARDINES	-	-	-	-	421	21
SPOT	-	-	1	(1)	10,087	1,064
STEELHEAD TROUT	-	-	-	-	507	191
STRIPED BASS	-	-	-	-	11,186	2,529
STURGEON:						
COMMON	-	-	-	-	779	121
SHOVELNOSE	64	17	-	-	64	17
SUCKERS	1,698	63	-	-	3,147	110
SUNFISH	1	(1)	-	-	19	3
SWELLFISH	-	-	-	-	1,836	87
SWORDFISH	-	-	12	4	1,589	960
TAUTOG	-	-	-	-	204	12
TENPOUNDER	-	-	2	1	686	23
THIMBLE-EYED MACKEREL	-	-	-	-	3	(1)
TILEFISH	-	-	-	-	139	26
TOMCOD	-	-	-	-	161	2
TRIGGERFISH	-	-	2	1	28	3
TRIPLETAIL	-	-	-	-	18	2
TULLIBEE	1	(1)	-	-	695	24
TUNA:						
ALBACORE	-	-	20	10	56,140	15,008
BLUEFIN	-	-	2/477	2/510	15,463	3,028
LITTLE	-	-	17	5	271	31
SKIPJACK	-	-	7,342	1,497	84,232	13,645
YELLOWFIN	-	-	683	499	237,388	43,251
TOTAL TUNA	-	-	8,539	2,521	393,494	74,963
TURBOT	-	-	-	-	33	3
WAHOO	-	-	37	12	37	12
WARSAW	-	-	-	-	222	31
WHITEBAIT	-	-	-	-	250	31
WHITE BASS	43	4	-	-	1,146	279
WHITEFISH:						
COMMON	34	12	-	-	2,472	1,362
MENOMINEE	-	-	-	-	198	41
WHITE PERCH	-	-	-	-	2,557	419
WHITING	-	-	-	-	44,516	3,889
WOLFFISH	-	-	-	-	598	34
YELLOW BASS	10	1	-	-	10	1
YELLOW PERCH	324	68	-	-	4,762	850
YELLOW PIKE	795	426	-	-	986	516
YELLOWTAIL	-	-	-	-	184	25
UNCLASSIFIED:						
FOR FOOD	9	(1)	1,077	439	10,371	1,471
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	160,952	2,602
TOTAL FISH	67,008	8,812	10,882	3,742	4,017,082	326,950

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
SHELLFISH ET AL.	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CRABS:						
BLUE:						
HARD	-	-	-	-	145,410	10,517
SOFT AND PEELER	-	-	-	-	[illegible]	1,119
DUNGENESS	-	-	-	-	58,508	12,077
GREEN	-	-	-	-	52	7
KING	-	-	-	-	52,061	13,190
ROCK	-	-	-	-	2,340	172
SNOW	-	-	-	-	14,473	1,417
STONE	-	-	-	-	1,614	840
UNCLASSIFIED	-	-	85	99	85	99
TOTAL CRABS	-	-	85	99	[illegible]	[illegible]
CRAWFISH, FRESH-WATER	1,822	543	-	-	3,243	969
HORSESHOE CRABS	-	-	-	-	16	2
LIMPET	-	-	4	20	4	20
LOBSTERS:						
AMERICAN (NORTHERN)	-	-	-	-	[illegible]	[illegible]
SLIPPER	-	-	(1)	(1)	(1)	(1)
SPINY	-	-	5	6	[illegible]	[illegible]
SHRIMP	2	(1)	[illegible]	4	[illegible]	[illegible]
ABALONE	-	-	-	-	580	948
CLAMS:						
GEODUCK	-	-	-	-	[illegible]	[illegible]
HARD	-	-	-	-	[illegible]	[illegible]
HORSE	-	-	-	-	[illegible]	1
OCEAN QUAHOG	-	-	-	-	1,747	305
RANGIA	-	-	-	-	54	16
RAZOR	-	-	-	-	367	317
SOFT	-	-	-	-	[illegible]	[illegible]
SUNRAY VENUS	-	-	-	-	760	76
SURF	-	-	-	-	[illegible]	[illegible]
MIXED	-	-	-	-	6	7
TOTAL CLAMS	-	-	-	-	[illegible]	[illegible]
CONCHS	-	-	-	-	[illegible]	[illegible]
MUSSELS, SEA	-	-	-	-	667	158
MUSSEL SHELLS	5,764	465	-	-	5,764	465
OCTOPUS	-	-	6	5	[illegible]	[illegible]
OYSTERS, MARKET:						
EASTERN:						
PUBLIC	-	-	-	-	[illegible]	[illegible]
PRIVATE	-	-	-	-	16,963	10,439
PACIFIC	-	-	-	-	[illegible]	3,497
WESTERN	-	-	-	-	59	176
TOTAL OYSTERS	-	-	-	-	[illegible]	[illegible]
PERIWINKLES AND COCKLES	-	-	-	-	40	10
SCALLOPS:						
BAY	-	-	-	-	1,700	[illegible]
CALICO	-	-	-	-	1,833	[illegible]
SEA	-	-	-	-	7,304	9,353
TOTAL SCALLOPS	-	-	-	-	[illegible]	[illegible]
SQUID	-	-	6	3	[illegible]	[illegible]
MOLLUSKS, UNCLASSIFIED	-	-	-	-	109	47
SEA URCHINS	-	-	-	-	60	1
TERRAPIN	-	-	-	-	9	4
TURTLES:						
BABY	4	40	-	-	4	41
GREEN	-	-	-	-	[illegible]	91
LOGGERHEAD	-	-	-	-	[illegible]	4
SLIDER	76	4	-	-	76	4
SNAPPER	135	27	-	-	411	[illegible]
SOFT-SHELL	2	(1)	-	-	[illegible]	11
UNCLASSIFIED	-	-	12	5	13	5
TOTAL TURTLES	217	71	12	5	1,080	[illegible]
FROGS	38	23	-	-	[illegible]	[illegible]
KELP (WITH HERRING EGGS)	-	-	-	-	[illegible]	115
IRISH MOSS	-	-	-	-	[illegible]	117
SEAWEED	-	-	49	16	49	16
SPONGES	-	-	-	-	43	289

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY REGION, 1970 - Continued

SPECIES	MISSISSIPPI RIVER AND TRIBUTARIES		HAWAII		TOTAL	
SHELLFISH ET AL.-CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BLOODWORMS.	-	-	-	-	845	1,216
SANDWORMS	-	-	-	-	856	764
TOTAL SHELLFISH ET AL.	7,843	1,102	169	158	898,313	286,058
WHALE PRODUCTS:						
MEAL.	-	-	-	-	662	44
MEAT.	-	-	-	-	483	48
OIL:						
SPERM	-	-	-	-	602	40
WHALE	-	-	-	-	78	6
TOTAL WHALE PRODUCTS.	-	-	-	-	1,825	138
GRAND TOTAL	74,851	9,914	11,051	3,900	4,917,220	613,146

1/ LESS THAN 500 POUNDS OR $500.

2/ INCLUDES DATA ON THE LANDINGS OF BIGEYE TUNA.

NOTE:--STATISTICS ON LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, OYSTERS, AND PERIWINKLES AND COCKLES ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS AND ABALONE ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

LANDINGS OF CATCH BY GEAR, 1970

GEAR	NEW ENGLAND		MIDDLE ATLANTIC	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES	312	23	2,253	441
STOP NETS AND SEINES	4,896	113	-	-
PURSE SEINES	57,116	1,272	32,042	999
BAG NETS	35	6	-	-
OTTER TRAWLS	391,015	45,070	28,754	5,569
WEIRS	2,051	55	37	15
POUND NETS	2,009	196	3,993	310
FLOATING TRAPS	5,763	819	-	-
FYKE AND HOOP NETS	25	4	73	9
POTS AND TRAPS	27,601	25,017	3,760	2,226
GILL NETS	4,496	448	2,130	280
HOOKS AND BAITS	10,750	1,517	770	146
DIP NETS	1,751	122	-	-
HARPOONS	372	146	-	-
SPEARS	37	8	12	3
DREDGES	8,644	8,772	57,690	11,830
TONGS AND RAKES 5/	5,768	1,859	7,516	7,518
HOES AND FORKS	8,546	5,530	35	18
DIVING OUTFITS	45	46	-	-
BY HAND	40	10	926	551
TOTAL	531,272	91,033	139,991	29,915

GEAR	CHESAPEAKE		SOUTH ATLANTIC	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES	6,035	481	7,536	715
PURSE SEINES	405,962	6,739	140,620	2,033
BAG NETS	-	-	136	72
OTTER TRAWLS	9,397	1,817	41,062	13,463
POUND NETS	-	-	12,747	515
TRAP NETS	74,801	2,472	-	-
FYKE AND HOOP NETS	1,986	153	439	88
POTS AND TRAPS	46,080	3,368	40,753	5,092
GILL NETS	11,716	1,610	17,438	2,700
TRAMMEL NETS	-	-	133	110
HOOKS AND BAITS	13,688	1,286	16,450	3,322
DIP NETS	117	28	141	5
CAST NETS	-	-	2	(6)
SPEARS	-	-	45	16
SCRAPES	1,662	639	-	-
DREDGES	40,186	10,853	899	663
TONGS AND RAKES 5/	18,738	11,046	1,220	732
HOOKS	-	-	12	37
DIVING OUTFITS	-	-	7	4
BY HAND	82	51	527	273
TOTAL	630,450	40,543	280,167	29,840

GEAR	GULF		PACIFIC	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES	10,674	994	1/ 3,835	1/ 463
PURSE SEINES	1,209,890	23,793	759,928	86,337
BUTTERFLY NETS	2,190	590	-	-
BEAM TRAWLS	-	-	989	57
OTTER TRAWLS	343,531	111,205	201,687	12,939
WEIRS	-	-	46	10
POUND NETS	-	-	75	33
FLOATING TRAPS	-	-	1,023	88
FYKE AND HOOP NETS	1,906	441	-	-
POTS AND TRAPS	39,343	7,873	126,712	27,148
GILL NETS	32,466	3,892	209,936	50,594
TRAMMEL NETS	11,200	2,053	(2)	(2)
HOOKS AND BAITS	27,204	7,615	157,947	49,349
DIP NETS	903	118	3/ 3,050	3/ 175
REEF NETS	-	-	620	272
WHEELS	-	-	12	2
CAST NETS	4	(6)	-	-
HARPOONS	-	-	2,789	674
SPEARS	119	36	-	-
DREDGES	14,401	5,902	4/ 9,226	4/ 4,882
TONGS AND RAKES 5/	4,142	1,758	433	423
SHOVELS	-	-	635	467
BRUSH TRAPS	46	35	-	-
GRABS	7	4	-	-
HOOKS	8	34	-	-
DIVING OUTFITS	24	219	601	960
BY HAND	46	19	229	115
TOTAL	1,696,104	166,581	1,479,773	234,988

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS OF CATCH BY GEAR, 1970 - Continued

GEAR	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES	6,575	500	16,041	847
OTTER TRAWLS.	18,413	239	957	32
WEIRS	2,240	313	1,320	54
POUND NETS.	19,795	501	(6)	(6)
TRAP NETS	4,507	1,076	1,168	42
FYKE AND HOOP NETS.	536	66	16,375	2,430
POTS AND TRAPS.	-	-	3,147	746
SLAT TRAPS.	-	-	56	16
GILL NETS	19,322	3,671	11,343	1,893
TRAMMEL NETS.	-	-	10,778	1,611
HOOKS AND BAITS	173	66	5,993	1,663
ELECTRICAL DEVICES.	-	-	1	(6)
DIP NETS.	-	-	1,875	96
TONGS AND RAKES 5/.	-	-	31	19
CROWFOOT BARS	-	-	2,967	254
GRABS	-	-	1	(6)
DIVING OUTFITS.	-	-	2,022	182
BY HAND	-	-	770	29
TOTAL	71,561	6,432	74,851	9,914

GEAR	HAWAII		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES	43	18	53,304	4,482
STOP NETS AND SEINES. . . .	-	-	4,896	113
PURSE SEINES.	-	-	2,605,558	121,173
BAG NETS.	718	260	889	338
BUTTERFLY NETS.	-	-	2,190	590
BEAM TRAWLS	-	-	989	57
OTTER TRAWLS.	-	-	1,034,816	190,334
WEIRS	-	-	5,694	447
POUND NETS.	-	-	38,619	1,555
TRAP NETS	-	-	80,476	3,590
FLOATING TRAPS.	-	-	6,786	907
FYKE AND HOOP NETS.	-	-	21,340	3,191
POTS AND TRAPS.	112	86	287,508	71,556
SLAT TRAPS.	-	-	56	16
GILL NETS	145	78	308,992	65,166
TRAMMEL NETS.	-	-	22,111	3,774
HOOKS AND BAITS	9,814	3,303	242,789	68,267
ELECTRICAL DEVICES.	-	-	1	(6)
DIP NETS.	-	-	7,837	544
LIFT NETS	117	87	117	87
REEF NETS	-	-	620	272
WHEELS.	-	-	12	2
CAST NETS	6	3	12	3
HARPOONS.	-	-	3,161	820
SPEARS.	4	4	217	67
SCRAPES	-	-	1,662	639
DREDGES	-	-	131,046	42,902
TONGS AND RAKES 5/.	-	-	37,848	23,355
HOES AND FORKS.	-	-	8,581	5,548
SHOVELS	-	-	635	467
BRUSH TRAPS	-	-	46	35
CROWFOOT BARS	-	-	2,967	254
GRABS	-	-	8	4
HOOKS	-	-	20	71
DIVING OUTFITS.	-	-	2,699	1,411
BY HAND	5	21	2,631	1,069
UNCLASSIFIED GEAR	87	40	87	40
TOTAL	11,051	3,900	4,917,220	613,146

1/ LANDINGS BY HAUL SEINES IN ALASKA AND BY LAMPARA NETS IN CALIFORNIA HAVE BEEN INCLUDED WITH PURSE SEINES.

2/ LANDINGS BY TRAMMEL NETS IN CALIFORNIA HAVE BEEN INCLUDED WITH GILL NETS.

3/ LANDINGS BY BRAIL OR SCOOP NETS IN CALIFORNIA HAVE BEEN INCLUDED WITH DIP NETS.

4/ LANDINGS BY HAND IN WASHINGTON AND OREGON HAVE BEEN INCLUDED WITH LANDINGS BY DREDGES. IN CALIFORNIA THIS CATCH HAS BEEN INCLUDED WITH TONGS.

5/ INCLUDES LANDINGS BY OYSTER GRABS.

6/ LESS THAN 500 POUNDS OR $500.

GENERAL REVIEW

LANDINGS FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1970

AREA AND SPECIES	WATERS OFF U.S. COASTS	HIGH SEAS OFF FOREIGN COASTS	TOTAL
	THOUSAND POUNDS		
ATLANTIC AND GULF STATES:			
NEW ENGLAND:			
COD	49,914	2,737	52,651
CUSK	1,253	98	1,351
FLOUNDERS	103,570	338	103,908
HADDOCK	22,387	4,494	26,881
HAKE, WHITE	3,938	123	4,061
HALIBUT	156	42	198
OCEAN PERCH	34,259	21,031	55,290
POLLOCK	8,039	749	8,788
WHITING	40,129	2	40,131
WOLFFISH	426	172	598
UNCLASSIFIED	237,375	40	237,415
TOTAL	501,446	29,826	531,272
MIDDLE ATLANTIC, UNCLASSIFIED, TOTAL	139,991	-	139,991
CHESAPEAKE, UNCLASSIFIED, TOTAL	630,450	-	630,450
SOUTH ATLANTIC, UNCLASSIFIED, TOTAL	280,167	-	280,167
GULF:			
FLOUNDERS	1,992	8	2,000
GROUPERS	7,070	427	7,497
SNAPPER, RED	6,604	1,933	8,537
WARSAW	142	45	187
LOBSTERS, SPINY	3,888	3,176	7,064
SHRIMP	215,884	14,590	230,474
UNCLASSIFIED	1,442,335	10	1,442,345
TOTAL	1,677,915	20,189	1,698,104
TOTAL ATLANTIC AND GULF STATES	3,229,969	50,015	3,279,984
PACIFIC COAST STATES:			
ALASKA, WASHINGTON, AND OREGON:			
BOTTOMFISH (WASHINGTON AND OREGON) 2/	34,461	26,969	61,430
HALIBUT	33,270	1,079	34,349
SALMON	410,073	46	410,119
TUNA:			
SKIPJACK	9	400	409
YELLOWFIN	30	4,700	4,730
UNCLASSIFIED	265,844	172	266,016
TOTAL	743,687	33,366	777,053
CALIFORNIA:			
BONITO	8,794	398	9,192
GROUPERS	-	7	7
ROCKFISHES	10,639	48	10,687
SCULPIN	76	79	155
SEA BASS:			
BLACK	12	118	130
WHITE	426	675	1,101
SHARKS, UNCLASSIFIED	386	34	420
SWORDFISH	928	17	945
TUNA:			
ALBACORE	27,420	2,512	29,932
BLUEFIN	262	8,393	8,655
SKIPJACK	380	76,101	76,481
YELLOWFIN	115	231,860	231,975
TOTAL	28,177	318,866	347,043
YELLOWTAIL	56	128	184
UNCLASSIFIED	332,850	6	332,856
TOTAL	382,344	320,376	702,720
TOTAL PACIFIC COAST STATES	1,126,031	353,742	1,479,773
GREAT LAKES AND MISSISSIPPI RIVER STATES, UNCLASSIFIED, TOTAL	146,412	-	146,412
HAWAII, UNCLASSIFIED, TOTAL	11,051	-	11,051
GRAND TOTAL	4,513,463	403,757	4,917,220

1/ DOES NOT INCLUDE LANDINGS BY U.S. FLAG VESSELS AT PUERTO RICO, AMERICAN SAMOA, OR OTHER PORTS OUTSIDE CONTINENTAL UNITED STATES AND HAWAII.

2/ PRINCIPALLY COD, FLOUNDERS (INCLUDING SOLE), LINGCOD, OCEAN PERCH, ROCKFISHES, AND SABLEFISH.

LANDINGS USED FOR HUMAN FOOD AND INDUSTRIAL PRODUCTS, 1970

ITEM	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
FOR HUMAN FOOD, TOTAL	432,475	87,739	106,289	29,089	169,111	32,190
FOR INDUSTRIAL PRODUCTS:						
ANIMAL FOOD, FRESH AND FROZEN	293	6	221	3	40	(2)
BAIT, FRESH AND FROZEN	15,064	2,325	5,307	309	34,440	1,086
CANNED ANIMAL FOOD	16,166	323	-	-	4,892	89
REDUCTION TO MEAL, OIL, AND SOLUBLES	63,376	523	28,174	514	421,967	7,178
OTHER	3,898	117	-	-	-	-
TOTAL	98,797	3,294	33,702	826	461,339	8,353
GRAND TOTAL	531,272	91,033	139,991	29,915	630,450	40,543

ITEM	SOUTH ATLANTIC		GULF		PACIFIC 1/	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
FOR HUMAN FOOD, TOTAL	129,937	27,448	383,161	140,289	1,214,037	233,857
FOR INDUSTRIAL PRODUCTS:						
ANIMAL FOOD, FRESH AND FROZEN	39	(2)	7,200	125	6,226	164
BAIT, FRESH AND FROZEN	3,922	282	9,442	474	29,539	1,129
CANNED ANIMAL FOOD	-	-	89,335	1,715	39,113	1,489
REDUCTION TO MEAL, OIL, AND SOLUBLES	146,257	2,073	1,208,934	23,725	201,909	2,249
OTHER	12	37	32	253	-	-
TOTAL	150,230	2,392	1,314,943	26,292	276,787	5,031
GRAND TOTAL	280,167	29,840	1,698,104	166,581	1,490,824	238,888

ITEM	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
FOR HUMAN FOOD, TOTAL	36,700	6,021	65,503	8,349	2,537,213	564,982
FOR INDUSTRIAL PRODUCTS:						
ANIMAL FOOD, FRESH AND FROZEN	1,398	30	1,138	72	16,555	400
BAIT, FRESH AND FROZEN	-	-	1,665	1,193	99,379	6,798
CANNED ANIMAL FOOD	12,902	147	148	4	162,556	3,767
REDUCTION TO MEAL, OIL, AND SOLUBLES	20,561	234	3,720	93	2,094,898	36,589
OTHER	-	-	2,677	203	6,619	610
TOTAL	34,861	411	9,348	1,565	2,380,007	48,164
GRAND TOTAL	71,561	6,432	74,851	9,914	4,917,220	613,146

1/ INCLUDES HAWAII.

2/ LESS THAN $500.

LANDINGS USED FOR INDUSTRIAL PRODUCTS, BY REGIONS, 1970

SPECIES	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC 1/	GREAT LAKES	MISSIS-SIPPI RIVER	TOTAL
FISH	THOUSAND POUNDS								
ALEWIVES. . .	4,949	-	7,032	5,879	251	-	33,461	-	51,572
ANCHOVIES . .	-	-	-	-	-	192,358	-	-	192,358
BALLYHOO. . .	-	-	-	159	268	-	-	-	427
BLUE RUNNER .	-	-	-	2	690	-	-	-	692
BONITO. . . .	-	-	-	-	-	689	-	-	689
BUTTERFISH. .	247	278	-	139	-	-	-	-	664
CARP.	-	-	-	-	-	685	-	3,861	4,546
CATFISH AND BULLHEADS. .	-	-	-	-	-	-	-	7	7
CHUBS	-	-	-	-	-	-	204	-	204
CIGARFISH . .	-	-	-	-	259	-	-	-	259
COD	-	-	-	-	-	41	-	-	41
CREVALLE. . .	-	-	-	25	236	-	-	-	261
CROAKER . . .	-	-	-	763	59,425	-	-	-	60,188
CUTLASSFISH .	-	-	-	-	4,680	-	-	-	4,680
DRUM, BLACK .	-	-	-	-	7	-	-	-	7
EEL, COMMON .	-	-	220	-	-	-	-	-	220
FLOUNDERS . .	6,401	-	-	5	-	3,614	-	-	10,020
GIZZARD SHAD.	-	-	-	-	-	-	-	208	208
HAKE:									
PACIFIC . .	-	-	-	-	-	9,009	-	-	9,009
RED	9,529	-	-	-	-	-	-	-	9,529
HALIBUT . . .	-	-	-	-	-	525	-	-	525
HERRING:									
LAKE. . . .	-	-	-	-	-	-	2	-	2
SEA:									
ATLANTIC.	27,669	449	1	-	-	-	-	-	28,119
PACIFIC .	-	-	-	-	-	21,912	-	-	21,912
THREAD. . .	-	-	-	5,161	520	-	-	-	5,681
HOGCHOKER . .	-	-	3	-	-	-	-	-	3
JACK MACKEREL	-	-	-	-	-	30,139	-	-	30,139
KING CROAKER.	-	-	-	-	-	8	-	-	8
KING WHITING OR "KING-FISH". . . .	-	-	-	59	-	-	-	-	59
LAUNCE. . . .	18	-	-	-	-	-	-	-	18
LINGCOD . . .	-	-	-	-	-	449	-	-	449
MACKEREL:									
ATLANTIC. .	3,096	285	-	-	-	-	-	-	3,381
PACIFIC . .	-	-	-	-	-	102	-	-	102
MENHADEN. . .	10,506	31,280	449,760	136,263	1,209,467	-	-	-	1,837,276
MINNOWS . . .	-	-	-	-	-	-	-	455	455
MULLET. . . .	-	-	-	294	506	-	-	-	800
OCEAN PERCH:									
ATLANTIC. .	857	-	-	-	-	-	-	-	857
PACIFIC . .	-	-	-	-	-	435	-	-	435
OCEAN POUT. .	10,516	-	-	-	-	-	-	-	10,516
PERCH	-	-	-	-	-	109	-	-	109
POLLOCK . . .	41	-	-	-	-	388	-	-	429
RATFISH . . .	-	-	-	-	-	562	-	-	562
ROCKFISHES. .	-	-	-	-	-	141	-	-	141
SABLEFISH . .	-	-	-	-	-	82	-	-	82
SALMON. . . .	-	-	-	-	-	510	-	-	510
SARDINES, PACIFIC. . .	-	-	-	-	-	106	-	-	106
SCUP OR PORGY	-	-	-	88	-	-	-	-	88
SEA ROBIN . .	2,096	54	40	-	-	-	-	-	2,190
SEA TROUT OR WEAKFISH:									
GRAY. . . .	-	-	-	25	-	-	-	-	25
WHITE . . .	-	-	-	-	8,681	-	-	-	8,681
SHARKS, UN-CLASSIFIED .	18	-	-	3	6	499	-	-	526
SILVERSIDES .	-	62	-	-	-	-	-	-	62
SKATES. . . .	2,721	-	-	-	-	295	-	-	3,016
SMELT	-	-	-	-	-	36	507	-	543
SPANISH SAR-DINES. . . .	-	-	-	-	421	-	-	-	421
SPOT.	-	-	-	318	8,681	-	-	-	8,999
SUCKERS . . .	-	-	-	-	-	-	-	30	30
TENPOUNDER. .	-	-	-	-	684	-	-	-	684
TOMCOD. . . .	-	-	-	-	-	159	-	-	159
TULLIBEE. . .	-	-	-	-	-	-	687	900	1,587
TUNA, SKIP-JACK	-	-	-	-	-	86	-	-	86
WHITING . . .	5,983	149	-	-	-	-	-	-	6,132
UNCLASSIFIED.	8,401	72	3,709	807	19,662	2,140	-	1,210	36,001
TOTAL FISH. .	93,048	32,629	460,765	149,990	1,314,444	265,079	34,861	6,671	2,357,487

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS USED FOR INDUSTRIAL PRODUCTS, BY REGIONS, 1970 - Continued

SPECIES	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC 1/	GREAT LAKES	MISSIS-SIPPI RIVER	TOTAL
SHELLFISH ET AL.	- -				THOUSAND POUNDS	- -			
CRABS:									
BLUE, SOFT AND PEELER	-	-	546	-	-	-	-	-	546
GREEN . . .	50	-	-	-	-	-	-	-	50
HORSESHOE CRABS. . . .	16	-	-	-	-	-	-	-	16
SHRIMP. . . .	-	-	-	228	456	-	-	-	684
CLAMS (MEAT):									
RAZOR . . .	4	-	-	-	-	90	-	-	94
SURF. . . .	-	813	22	-	-	-	-	-	835
UNCLASSIFIED	-	-	-	-	-	15	-	-	15
MUSSEL SHELLS, FRESH-WATER.	-	-	-	-	-	-	-	2,676	2,676
OCTOPUS . . .	-	-	-	-	-	8	-	-	8
SQUID	80	260	6	-	11	9,770	-	-	10,127
TURTLES, BABY	-	-	-	-	-	-	-	1	1
IRISH MOSS. .	3,898	-	-	-	-	-	-	-	3,898
SPONGES . . .	-	-	-	12	32	-	-	-	44
BLOODWORMS. .	845	-	-	-	-	-	-	-	845
SANDWORMS . .	856	-	-	-	-	-	-	-	856
TOTAL SHELLFISH ET AL..	5,749	1,073	574	240	499	9,883	-	2,677	20,695
WHALE PRODUCTS. . . .	-	-	-	-	-	1,825	-	-	1,825
GRAND TOTAL .	98,797	33,702	461,339	150,230	1,314,943	276,787	34,861	9,348	2,380,007

1/ INCLUDES HAWAII.

NOTE:--PARTIALLY ESTIMATED.

LANDINGS USED FOR INDUSTRIAL PRODUCTS, BY COMMODITY, 1970

SPECIES	ANIMAL FOOD, FRESH AND FROZEN	BAIT, FRESH AND FROZEN	CANNED ANIMAL FOOD	FOR REDUCTION	OTHER	TOTAL
FISH			THOUSAND POUNDS			
ALEWIVES	-	4,650	14,980	31,942	-	51,572
ANCHOVIES	-	832	4,726	186,800	-	192,358
BALLYHOO	-	427	-	-	-	427
BLUE RUNNER	-	692	-	-	-	692
BONITO	-	-	689	-	-	689
BUTTERFISH	-	312	3	349	-	664
CARP	685	-	141	3,720	-	4,546
CATFISH AND BULLHEADS	-	-	7	-	-	7
CHUBS	204	-	-	-	-	204
CIGARFISH	-	259	-	-	-	259
COD	-	-	-	41	-	41
CREVALLE	-	261	-	-	-	261
CROAKER	7,217	607	51,814	550	-	60,188
CUTLASSFISH	-	213	4,467	-	-	4,680
DRUM, BLACK	-	7	-	-	-	7
EEL, COMMON	-	220	-	-	-	220
FLOUNDERS	2,269	420	4,029	3,302	-	10,020
GIZZARD SHAD	208	-	-	-	-	208
HAKE:						
PACIFIC	1,461	-	-	7,548	-	9,009
RED	-	2,524	1,073	5,932	-	9,529
HALIBUT	-	525	-	-	-	525
HERRING:						
LAKE	-	-	2	-	-	2
SEA:						
ATLANTIC	-	4,453	4,219	19,447	-	28,119
PACIFIC	900	17,132	237	3,643	-	21,912
THREAD	-	436	-	5,245	-	5,681
HOGCHOKER	-	3	-	-	-	3
JACK MACKEREL	-	18	30,121	-	-	30,139
KING CROAKER	-	-	8	-	-	8
KING WHITING OR "KINGFISH"	-	59	-	-	-	59
LAUNCE	-	18	-	-	-	18
LINGCOD	-	-	440	9	-	449
MACKEREL:						
ATLANTIC	-	2,011	-	1,370	-	3,381
PACIFIC	-	-	102	-	-	102
MENHADEN	-	35,800	2,776	1,798,700	-	1,837,276
MINNOWS	-	455	-	-	-	455
MULLET	-	800	-	-	-	800
OCEAN PERCH:						
ATLANTIC	-	8	-	849	-	857
PACIFIC	-	-	-	435	-	435
OCEAN POUT	-	-	3,824	6,692	-	10,516
PERCH	-	-	109	-	-	109
POLLOCK	87	-	-	342	-	429
RATFISH	78	-	-	484	-	562
ROCKFISHES	32	10	-	99	-	141
SABLEFISH	43	-	-	39	-	82
SALMON	-	510	-	-	-	510
SARDINES, PACIFIC	-	94	12	-	-	106
SCUP OR PORGY	2	22	-	64	-	88
SEA ROBIN	178	525	-	1,487	-	2,190
SEA TROUT OR WEAKFISH:						
GRAY	1	24	-	-	-	25
WHITE	-	641	8,040	-	-	8,681
SHARKS, UNCLASSIFIED	-	27	-	499	-	526
SILVERSIDES	-	62	-	-	-	62
SKATES	114	1,235	-	1,667	-	3,016
SMELT	507	29	7	-	-	543
SPANISH SARDINES	-	421	-	-	-	421
SPOT	7	735	8,040	217	-	8,999
SUCKERS	30	-	-	-	-	30
TENPOUNDER	-	684	-	-	-	684
TOMCOD	32	-	-	127	-	159
TULLIBEE	1,587	-	-	-	-	1,587
TUNA, SKIPJACK	-	-	86	-	-	86
WHITING	193	-	1,000	4,939	-	6,132
UNCLASSIFIED	229	7,150	21,604	7,018	-	36,001
TOTAL FISH	16,064	85,311	162,556	2,093,556	-	2,357,487

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS USED FOR INDUSTRIAL PRODUCTS, BY COMMODITY, 1970 - Continued

SPECIES	ANIMAL FOOD, FRESH AND FROZEN	BAIT, FRESH AND FROZEN	CANNED ANIMAL FOOD	FOR REDUCTION	OTHER	TOTAL
SHELLFISH ET AL.			THOUSAND POUNDS			
CRABS:						
BLUE, SOFT AND PEELER . .	-	546	-	-	-	546
GREEN	-	50	-	-	-	50
HORSESHOE CRABS	-	16	-	-	-	16
SHRIMP.	-	684	-	-	-	684
CLAMS: (MEATS)						
RAZOR	-	94	-	-	-	94
SURF.	-	835	-	-	-	835
UNCLASSIFIED.	-	15	-	-	-	15
MUSSEL SHELLS, FRESH-WATER.	-	-	-	-	2,676	2,676
OCTOPUS	8	-	-	-	-	8
SQUID	-	10,127	-	-	-	10,127
TURTLES, BABY	-	-	-	-	1	1
IRISH MOSS.	-	-	-	-	3,898	3,898
SPONGES	-	-	-	-	44	44
BLOODWORMS.	-	845	-	-	-	845
SANDWORMS	-	856	-	-	-	856
TOTAL SHELLFISH ET AL.	8	14,068	-	-	6,619	20,695
WHALE PRODUCTS.	483	-	-	1,342	-	1,825
GRAND TOTAL	16,555	99,379	162,556	2,094,898	6,619	2,380,007

NOTE:--PARTLY ESTIMATED. LANDINGS OF CROAKER, CUTLASSFISH, RED HAKE, MINNOWS, OCEAN POUT, SEA ROBIN, WHITE SEA TROUT, SKATES, TULLIBEE, AND SPONGES AS SHOWN IN THESE TABLES EXCEED THE TOTAL LANDINGS OF EACH SPECIES AS SHOWN IN THE TABULATION ON LANDINGS BY REGION, PAGE 21. IN THAT TABLE THE EXTRA AMOUNTS ARE INCLUDED IN THE UNCLASSIFIED FISH FOR BAIT, REDUCTION, AND ANIMAL FOOD.

MONTHLY LANDINGS AND UTILIZATION OF FISH AND SHELLFISH, 1970

MONTH	LANDINGS FOR HUMAN FOOD		LANDINGS FOR INDUSTRIAL PRODUCTS 1/		TOTAL	
	MILLION POUNDS	PERCENT	MILLION POUNDS	PERCENT	MILLION POUNDS	PERCENT
JANUARY	104	4.1	46	1.9	150	3.1
FEBRUARY.	148	5.8	27	1.1	175	3.6
MARCH	163	6.4	42	1.8	205	4.2
APRIL	167	6.6	80	3.4	247	5.0
MAY	225	8.9	276	11.6	501	10.2
JUNE.	247	9.7	452	19.0	699	14.2
JULY.	397	15.7	474	19.9	871	17.7
AUGUST.	320	12.6	355	14.9	675	13.7
SEPTEMBER	254	10.0	264	11.1	518	10.5
OCTOBER	221	8.7	189	8.0	410	8.3
NOVEMBER.	161	6.4	108	4.5	269	5.5
DECEMBER.	130	5.1	67	2.8	197	4.0
TOTAL	2,537	100.0	2,380	100.0	4,917	100.0

1/ USED FOR MEAL, OIL, SOLUBLES, BAIT, ANIMAL FOOD AND OTHER NONHUMAN FOOD PRODUCTS.

RELATIVE VOLUME OF THE LANDINGS, BY SPECIES, 1970

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD LANDINGS AND YEAR	
	THOUSAND POUNDS	PERCENT	YEAR	THOUSAND POUNDS
MENHADEN.	1,837,493	37.4	1962	2,347,944
SALMON.	412,424	8.4	1936	643,700
TUNA.	393,494	8.0	1950	403,372
SHRIMP.	367,468	7.5	1970	367,468
CRABS	277,218	5.6	1966	372,425
ANCHOVIES	192,939	3.9	1970	192,939
FLOUNDERS	168,545	3.4	1965	180,121
INDUSTRIAL FISH 1/. . . .	160,952	3.3	1965	265,438
CLAMS	99,204	2.0	1970	99,204
HERRING, SEA:				
ATLANTIC.	66,741	1.4	1902	200,598
PACIFIC	21,818	.4	1937	263,200
TOTAL HERRING . . .	88,559	1.8	-	-
ALEWIVES.	69,539	1.4	1967	101,127
COD:				
ATLANTIC.	53,225	1.0	1880	294,351
PACIFIC	2,984	.1	1915	32,681
TOTAL COD	56,209	1.1	-	-
OCEAN PERCH, ATLANTIC . .	55,290	1.1	1951	258,320
OYSTERS	53,602	1.1	2/ 1908	152,046
JACK MACKEREL	47,747	1.0	1952	146,522
WHITING	44,516	.9	1957	133,041
CATFISH & BULLHEADS . . .	35,217	.7	1963	38,614
HALIBUT, PACIFIC.	34,547	.7	1915	66,696
LOBSTERS, AMERICAN. . . .	34,152	.7	1970	34,152
MULLET.	31,324	.6	1902	43,385
ROCKFISHES.	27,610	.6	1945	57,686
MACKERELS	27,502	.6	(3)	(3)
HADDOCK	26,889	.6	1929	293,809
CARP.	26,562	.5	1908	43,659
BUFFALOFISH	22,089	.4	1950	25,873
OCEAN PERCH, PACIFIC. . .	15,266	.3	1965	28,352
STRIPED BASS.	11,186	.2	1969	12,437
CHUBS	11,053	.2	1960	16,854
SCUP OR PORGY	10,504	.2	1960	49,229
LOBSTERS, SPINY	10,345	.2	1970	10,345
SPOT.	10,087	.2	1952	15,863
SHAD.	9,437	.2	1890	43,000
BONITO.	9,375	.2	1967	21,268
POLLOCK	9,218	.2	1938	40,694
SNAPPER, RED.	9,140	.2	1902	23,457
HAKE, PACIFIC	9,019	.2	1967	28,818
CROAKER	8,449	.2	1945	64,668
GROUPERS.	8,202	.2	1965	9,570
SEA TROUT OR WEAKFISH, GRAY	7,627	.2	1945	41,420
SCALLOPS, SEA	7,304	.1	1961	27,461
BLUEFISH.	7,203	.1	4/ 1897	22,673
SHEEPSHEAD, FRESH-WATER .	6,991	.1	1959	13,644
SABLEFISH	6,474	.1	1945	17,750
SEA TROUT OR WEAKFISH, SPOTTED.	6,126	.1	1936	8,800
LINGCOD	5,911	.1	1944	14,262
MUSSEL SHELLS	5,764	.1	1908	81,869
SMELT	5,755	.1	1958	13,303
HERRING, THREAD	5,681	.1	1967	18,963
YELLOW PERCH.	4,762	.1	1934	16,282
SEA BASS, BLACK (ATLANTIC)	4,311	.1	1952	21,997
HAKE, WHITE	4,088	.1	1898	39,824
BUTTERFISH.	3,949	.1	1939	17,151
IRISH MOSS.	3,898	.1	1968	7,300
KING WHITING OR KINGFISH.	3,851	.1	1968	5,708
ALL OTHER	105,153	2.3	-	-
TOTAL	4,917,220	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

2/ FIRST YEAR IN WHICH AN OYSTER SURVEY WAS MADE IN ALL REGIONS.

3/ DATA NOT AVAILABLE.

4/ INCLUDES DATA ON NEW ENGLAND LANDINGS IN 1898.

RELATIVE VALUE OF THE LANDINGS, BY SPECIES, 1970

SPECIES	VALUE	PERCENT OF TOTAL	RECORD VALUE AND YEAR	
	THOUSAND DOLLARS	PERCENT	YEAR	THOUSAND DOLLARS
SHRIMP.	129,758	21.2	1970	129,758
SALMON.	99,037	16.1	1970	99,037
TUNA.	74,963	12.2	1970	74,963
CRABS	39,238	6.4	1968	44,433
MENHADEN.	34,084	5.6	1970	34,084
LOBSTERS, AMERICAN. . . .	33,464	5.5	1970	33,464
OYSTERS	29,485	4.8	1961	33,204
CLAMS	28,791	4.7	1970	28,791
FLOUNDERS	23,075	3.8	1970	23,075
SCALLOPS, SEA	9,353	1.5	1966	14,976
HALIBUT, PACIFIC.	8,834	1.4	1962	11,576
CATFISH & BULLHEADS . . .	8,241	1.3	1970	8,241
LOBSTERS, SPINY	6,332	1.0	1970	6,332
HADDOCK	6,045	1.0	1966	13,943
COD:				
ATLANTIC.	5,742	.9	1970	5,742
PACIFIC	200	.1	1959	664
TOTAL COD	5,942	1.0	-	-
SNAPPER, RED.	4,231	.7	1969	4,464
WHITING	3,889	.6	1970	3,889
MACKERELS	3,276	.5	(1)	(1)
BUFFALOFISH	3,081	.5	1952	3,564
OCEAN PERCH, ATLANTIC . .	2,724	.4	1951	12,597
INDUSTRIAL FISH 2/. . . .	2,602	.4	1967	3,136
MULLET.	2,580	.4	1945	4,647
STRIPED BASS.	2,529	.4	1970	2,529
SCUP OR PORGY	2,351	.4	1966	3,326
ANCHOVIES	2,173	.3	1970	2,173
CHUBS	1,926	.3	1958	2,564
JACK MACKEREL	1,881	.3	1952	4,755
ROCKFISHES.	1,832	.3	1945	2,648
HERRING, SEA:				
ATLANTIC.	1,174	.2	1948	3,798
PACIFIC	653	.1	1947	2,152
TOTAL HERRING, SEA.	1,827	.3	-	-
SEA TROUT OR WEAKFISH, SPOTTED.	1,[illegible]35	.3	1952	1,781
GROUPERS.	1,523	.2	1969	1,612
WHITEFISH, COMMON	1,362	.2	1948	3,784
POMPANO	1,344	.2	1970	1,344
BLOODWORMS.	1,216	.2	1970	1,216
ALEWIVES.	1,096	.2	1967	1,551
SPOT.	1,064	.2	1970	1,064
CROAKER	1,059	.2	1945	6,958
SHAD.	1,053	.2	1945	2,680
CARP.	1,025	.2	1951	2,007
SEA BASS, BLACK (ATLANTIC)	986	.2	1952	5,206
CRAWFISH, FRESH-WATER . .	969	.2	1969	1,571
OCEAN PERCH, PACIFIC. . .	963	.2	1965	1,334
SWORDFISH	960	.2	1946	1,435
SQUID	956	.2	1947	1,370
ABALONE	948	.2	1969	1,161
YELLOW PERCH.	850	.1	1958	1,540
SANDWORMS	764	.1	1970	764
BLUEFISH.	742	.1	1951	760
SEA TROUT OR WEAKFISH, GRAY	718	.1	1945	4,246
BONITO.	705	.1	1947	1,636
POLLOCK	696	.1	1945	1,819
BUTTERFISH.	644	.1	1962	1,005
ALL OTHER	16,224	2.7	-	-
TOTAL	613,146	100.0	-	-

1/ DATA NOT AVAILABLE.
2/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

GENERAL REVIEW

SEED OYSTER FISHERY, 1970

ITEM	NEW ENGLAND, CONNECTICUT		CHESAPEAKE, VIRGINIA		TOTAL	
OPERATING UNITS	NUMBER					
FISHERMEN:						
ON VESSELS	-		292		292	
ON BOATS AND SHORE:						
REGULAR	4		646		650	
CASUAL	2		181		183	
TOTAL	6		1,119		1,125	
VESSELS, MOTOR	-		144		144	
GROSS TONNAGE	-		1,115		1,115	
BOATS, MOTOR	4		588		592	
GEAR:						
DREDGES, COMMON	1		-		1	
YARDS AT MOUTH	2		-		2	
TONGS	2		1,119		1,121	
LANDINGS	U.S. BUSHELS	DOLLARS	U.S. BUSHELS	DOLLARS	U.S. BUSHELS	DOLLARS
OYSTER, SEED:						
PUBLIC:						
SPRING	725	2,182	345,929	397,818	346,654	400,000
FALL	600	1,806	238,197	357,295	238,797	359,101
PRIVATE:						
SPRING	-	-	6,645	7,642	6,645	7,642
FALL	-	-	12,317	20,264	12,317	20,264
TOTAL	1,325	3,988	603,088	783,019	604,413	787,007

NOTE:--SOME OF THE FISHERMEN ENGAGED IN HARVESTING SEED OYSTERS ALSO FISHED FOR MARKET OYSTERS OR OTHER SPECIES.

U.S. LANDINGS, 1970 - LIVE WEIGHT BASIS

In the annual digest it has been the practice of the NMFS to show the landings of univalve and bivalve mollusks on the basis of the weight of meats. Insofar as possible, all other fish and shellfish items are shown on a live weight basis.

Since world fishery statistics published by the Food and Agriculture Organization of the United Nations represent the live weight of landings of all items of fish and shellfish, it has been necessary to provide that organization with information on domestic landings of all species on a live weight basis. Data released by the Food and Agriculture Organization, therefore, indicate that U.S. landings in 1970 were 1.2 billion pounds greater than the figure appearing in NMFS publications. The increase is due to the inclusion of the weight of the shells of univalve and bivalve mollusks in the Food and Agriculture Organization data.

Data are included in this report showing the entire domestic landings on a live weight basis. Information is also included on landings of fishery products in the principal countries of the world so that the relative importance of the domestic fisheries can be determined. Tables containing these data follow:

U.S. LANDINGS, 1970 - LIVE WEIGHT BASIS

ITEM	THOUSAND POUNDS	THOUSAND DOLLARS
FISH	4,017,082	326,950
SHELLFISH ET AL.:		
UNIVALVE AND BIVALVE MOLLUSKS:		
ABALONE	2,876	948
CLAMS:		
GEODUCK	82	13
HARD 1/	125,659	14,420
HORSE	31	1
OCEAN QUAHOG	13,977	305
RANGIA	595	16
RAZOR	876	317
SOFT	62,947	5,982
SURF	337,117	7,730
MIXED	26	7
TOTAL CLAMS	541,310	28,791
CONCHS	3,219	210
LIMPETS	21	20
MUSSELS:		
SEA	3,669	158
FRESH-WATER	6,340	465
OYSTERS, MARKET	728,668	29,485
PERIWINKLES AND COCKLES	165	10
SCALLOPS:		
BAY	13,951	2,321
CALICO	22,947	729
SEA	53,525	9,353
UNCLASSIFIED	818	47
TOTAL UNIVALVE AND BIVALVE MOLLUSKS	1,377,509	72,537
CRUSTACEANS	692,442	209,763
OTHER	34,108	3,758
TOTAL SHELLFISH ET AL.	2,104,059	286,058
WHALE PRODUCTS	1,825	138
GRAND TOTAL	6,122,966	613,146

1/ INCLUDES SUNRAY VENUS CLAMS.

GENERAL REVIEW

WORLD LANDINGS OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1970

World landings of fish, crustaceans, mollusks, and other aquatic organisms (live weight) were a record 152.8 billion pounds--an increase of 10 percent compared with 1969.

Six nations accounted for 59 percent of world landings in 1970. Peru, with 18.2 percent, led for the ninth consecutive year followed by Japan with 13.4 percent; the Union of Soviet Socialist Republics, 10.5 percent; China (Mainland), 8.4 percent; Norway, 4.3 percent; and the United States, 4.0 percent.

Among the continents, Asia had 38 percent of the world landings, followed by South America with 21 percent; Europe, 17 percent; Soviet Russia, 11 percent; North and Central America, 7 percent; and Africa, 6 percent. A negligible quantity was taken in Oceania.

WORLD LANDINGS OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1970

(LIVE WEIGHT BASIS)

COUNTRY	BILLION POUNDS	PERCENT
PERU	27.81	18.2
JAPAN	20.52	13.4
UNION OF SOVIET SOCIALIST REPUBLICS	15.99	10.5
CHINA (MAINLAND)	1/ 12.79	8.4
NORWAY	6.57	4.3
UNITED STATES	2/ 6.12	4.0
INDIA	3.85	2.5
THAILAND	3.52	2.3
REPUBLIC OF SOUTH AFRICA	3.35	2.2
SPAIN	3.30	2.2
CANADA	3.04	2.0
REPUBLIC OF INDONESIA	2.75	1.8
DENMARK	2.70	1.8
CHILE	2.56	1.7
UNITED KINGDOM	2.42	1.6
REPUBLIC OF THE PHILIPPINES	2.18	1.4
REPUBLIC OF KOREA	2.06	1.3
FRANCE	1.71	1.1
ICELAND	1.62	1.1
CHINA (TAIWAN)	1.35	.9
FEDERAL REPUBLIC OF GERMANY	1.35	.9
REPUBLIC OF VIET-NAM	1.27	.8
BRAZIL	3/ 1.09	.7
POLAND	1.03	.7
PORTUGAL	3/ 1.01	.7
BURMA	.95	.6
PAKISTAN	.93	.6
ITALY	.89	.6
ANGOLA	.81	.5
MALAYSIA	.80	.5
MEXICO	3/ .78	.5
EAST GERMANY	.71	.5
NETHERLANDS	.66	.4
SWEDEN	.65	.4
NORTH KOREA	4/ .64	.4
NORTH VIET-NAM	5/ .64	.4
MOROCCO	.56	.4
ARGENTINA	.47	.3
ALL OTHER	11.33	7.4
TOTAL	152.78	100.0

1/ 1960 DATA. 2/ REVISED. (INCLUDES WEIGHT OF CLAM, OYSTER, SCALLOP, AND OTHER UNIVALVE AND BIVALVE MOLLUSK SHELLS. THIS WEIGHT IS NOT INCLUDED IN OTHER UNITED STATES LANDINGS STATISTICS.) 3/ 1969 DATA. 4/ 1957 DATA. 5/ 1962 DATA.

SOURCE:--YEARBOOK OF FISHERY STATISTICS, 1970, VOLUME 30, FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS.

PROCESSED FISHERY PRODUCTS, 1970

The production of processed fishery products (canned, packaged fresh and frozen, cured, and industrial) in the United States, American Samoa, and Puerto Rico was worth a record $1.7 billion--16 percent greater than in 1969, the former record year. Packaged fresh and frozen products were 46 percent of the total value; canned, 43 percent; industrial, 6 percent; and cured, 5 percent. The Pacific Coast States led with products valued at $579.7 million; followed by the Gulf States with $325.7 million; New England, $246.5 million; and Middle Atlantic States, $139.5 million. In 1970, the 3,735 wholesaling and processing establishments had 86,813 employees.

The pack of canned fishery products was 46.2 million standard cases (1.3 billion pounds) worth $741.8 million to the packers--an increase of 5.4 million cases (177.6 million pounds) and $166.2 million compared with 1969. The gain resulted principally from record packs of canned tuna, shrimp, and animal food and greater packs of salmon, crab meat, and clams and clam products. The value of three items--salmon, tuna, and animal food--accounted for 84 percent of the total value received by the packers.

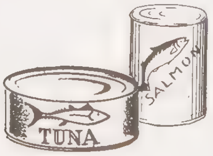
Fresh and frozen packaged fish and shellfish (fillets and steaks, fish sticks and portions, shrimp and other shellfish products, specialty dinners, etc.) was valued at $800.3 million in 1970 --compared with $756.8 million in 1969.

Cured fishery products were 70.9 million pounds worth $76.9 million--an increase of 2.6 million pounds and $10.6 million compared with 1969.

Industrial fishery products were valued at $99.5 million--$16.5 million more than in 1969. A sharp increase in production of marine animal scrap and meal and marine oil (chiefly menhaden) accounted largely for the gain.

Some processed fishery products have been manufactured from raw products imported from foreign countries and therefore cannot be correlated directly with domestic landings. Certain items, such as salted alewives and mild-cured salmon, are shown in an intermediate and also in a more advanced stage of processing. The lime and poultry feed processed shell products were processed from live and reef mollusk shells which are not included in the landings statistics.

Data on the production of processed fishery products during 1970 have been published previously in Current Fishery Statistics No. 5883.



VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLAR
NEW ENGLAND:	
MAINE	48,867
NEW HAMPSHIRE	16,878
MASSACHUSETTS	175,799
RHODE ISLAND	4,686
CONNECTICUT	223
TOTAL	246,453
MIDDLE ATLANTIC:	
NEW YORK	55,733
NEW JERSEY	34,748
PENNSYLVANIA	43,346
DELAWARE	5,644
TOTAL	139,471
CHESAPEAKE:	
MARYLAND	58,206
VIRGINIA	42,187
TOTAL	100,393
SOUTH ATLANTIC:	
NORTH CAROLINA	12,772
SOUTH CAROLINA	11,319
GEORGIA	34,457
FLORIDA, EAST COAST	30,954
TOTAL	89,502
GULF:	
FLORIDA, WEST COAST	80,842
ALABAMA	20,575
MISSISSIPPI	32,943
LOUISIANA	102,417
TEXAS	88,939
TOTAL	325,716
PACIFIC:	
ALASKA	185,910
WASHINGTON	46,241
OREGON	47,757
CALIFORNIA	299,785
TOTAL	579,693
GREAT LAKES:	
NEW YORK	1,207
PENNSYLVANIA	477
OHIO	19,513
ILLINOIS AND INDIANA	5,374
MICHIGAN	5,119
MINNESOTA	716
WISCONSIN	4,053
TOTAL	36,459
MISSISSIPPI RIVER:	
ALABAMA	522
ARKANSAS	[illegible]
ILLINOIS	[illegible]
IOWA	585
KANSAS, KENTUCKY, AND NEBRASKA	690
LOUISIANA	599
MINNESOTA	1,461
MISSISSIPPI, OKLAHOMA, AND TEXAS	6,323
MISSOURI	[illegible]
NORTH DAKOTA AND SOUTH DAKOTA	[illegible]
TENNESSEE	[illegible]
WISCONSIN	4,747
TOTAL	27,[illegible]79
OTHER:	
HAWAII AND AMERICAN SAMOA	63,[illegible]56
PUERTO RICO	[illegible]
TOTAL	181,748
GRAND TOTAL	1,726,514

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	166,851
FROZEN	633,468
CANNED	741,760
CURED	76,938
INDUSTRIAL	107,497
TOTAL	1,726,514

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

REGION	PROCESSING		
	PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR
	NUMBER		
NEW ENGLAND	259	10,651	7,669
MIDDLE ATLANTIC	110	4,696	3,996
CHESAPEAKE	215	9,554	6,844
SOUTH ATLANTIC	151	5,850	4,441
GULF	434	15,659	11,527
PACIFIC	386	21,124	14,624
GREAT LAKES	106	1,798	1,607
MISSISSIPPI RIVER	87	1,980	1,522
HAWAII, AMERICAN SAMOA, AND PUERTO RICO	32	4,093	3,289
TOTAL	1,780	75,405	55,519

REGION	WHOLESALING		
	PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR
	NUMBER		
NEW ENGLAND	278	1,585	1,291
MIDDLE ATLANTIC	257	1,817	1,710
CHESAPEAKE	250	1,092	967
SOUTH ATLANTIC	281	1,273	866
GULF	383	2,966	1,900
PACIFIC	124	1,125	982
GREAT LAKES	93	564	515
MISSISSIPPI RIVER	278	958	912
HAWAII, AMERICAN SAMOA, AND PUERTO RICO	11	28	28
TOTAL	1,955	11,408	9,171

REGION	TOTAL		
	PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR
	NUMBER		
NEW ENGLAND	537	12,236	8,960
MIDDLE ATLANTIC	367	6,513	5,706
CHESAPEAKE	465	10,646	7,811
SOUTH ATLANTIC	432	7,123	5,307
GULF	817	18,625	13,427
PACIFIC	510	22,249	15,606
GREAT LAKES	199	2,362	2,122
MISSISSIPPI RIVER	365	2,938	2,434
HAWAII, AMERICAN SAMOA, AND PUERTO RICO	43	4,121	3,317
TOTAL	3,735	86,813	64,690

NOTE:--EMPLOYMENT IS REPORTED BY EACH PLANT FOR EACH MONTH FOR THE PAYROLL PERIOD THAT INCLUDES THE 12TH OF THE MONTH. EMPLOYMENT FOR THE SEASON IS BASED ON THE GREATEST NUMBER OF EMPLOYEES WORKING DURING THE PAYROLL PERIOD THAT INCLUDED THE 12TH OF EACH MONTH. EMPLOYMENT FOR THE YEAR IS OBTAINED BY ADDING THE NUMBER OF EMPLOYEES RECORDED AS WORKING DURING THE PAYROLL PERIOD THAT INCLUDED THE 12TH OF EACH MONTH, FOR THE YEAR, AND DIVIDING BY 12.

GENERAL REVIEW

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	QUANTITY	DOLLARS
ALEWIVES:			
FRESH AND FROZEN:			
FOR BAIT	POUNDS	1,360,000	[illegible]
FILLETS	DO	(1)	(1)
ROE	DO	(1)	(1)
CANNED:			
FISH	STANDARD CASES	22,538	133,532
ROE	DO	7,611	113,789
ANIMAL FOOD	DO	298,312	2,111,863
SALTED	POUNDS	2,582,100	530,800
SMOKED	DO	13,100	1,944
MEAL AND SCRAP	TONS	2,561	464,190
OIL	1000 LBS	821	61,904
SOLUBLES	TONS	(1)	(1)
AMBERJACK:			
SPECIALTIES, FRESH (CAKES, BREADED AND COOKED)	POUNDS	(1)	(1)
SUN-DRIED	DO	(1)	(1)
ANCHOVIES:			
FROZEN FOR BAIT	DO	388,558	64,636
CANNED (PASTE)	STANDARD CASES	1,873	134,727
SALTED	POUNDS	(1)	(1)
MEAL AND SCRAP	TONS	16,200	2,786,993
OIL	1000 LBS	6,165	439,333
BIGEYE SCAD, SUN-DRIED	POUNDS	5,550	5,950
BARRACUDA, SMOKED	DO	7,123	5,061
BLUEFISH FILLETS, FRESH AND FROZEN	DO	(1)	(1)
BONEFISH SPECIALTIES, FRESH (CAKES, BREADED AND COOKED)	DO	(1)	(1)
BUFFALOFISH:			
FILLETS AND STEAKS, FRESH AND FROZEN	DO	139,468	55,069
SMOKED	DO	27,000	27,650
BUTTERFISH, SMOKED	DO	17,000	18,600
CARP:			
FILLETS, FRESH AND FROZEN	DO	2,096,570	692,678
SMOKED (INCLUDING SAUSAGE)	DO	380,150	187,799
MEAL AND SCRAP	TONS	(1)	(1)
OIL	1000 LBS	(1)	(1)
CATFISH:			
FRESH AND FROZEN:			
DRESSED, SKINS OFF	POUNDS	5,899,179	4,207,401
STEAKS	DO	(1)	(1)
FILLETS, BREADED RAW AND COOKED	DO	(1)	(1)
SMOKED	DO	14,070	13,489
CHUBS, SMOKED	DO	8,374,221	6,312,061
COD:			
FILLETS:			
FRESH AND FROZEN	DO	13,253,069	7,325,528
BREADED, RAW AND COOKED, FRESH AND FROZEN	DO	12,864,907	7,634,408
STEAKS:			
FRESH AND FROZEN	DO	365,706	119,378
BREADED RAW, FROZEN	DO	(1)	(1)
SPECIALTIES:			
FROZEN, BREADED RAW AND COOKED:			
CAKES AND PATTIES	DO	1,731,357	836,933
OTHER (FISH AND CHIPS, BITES, CRISPS, ETC.)	DO	6,534,275	3,406,780
CANNED (CAKES AND SALTED)	STANDARD CASES	(1)	(1)
SALTED	POUNDS	462,339	294,588
SMOKED	DO	210,683	102,659
SUN-DRIED (IN HOT SAUCE)	DO	7,060	16,998
LUTEFISK	DO	2,241,933	829,075
OIL, LIVER	1000 LBS	(1)	(1)
CREVALLE, SUN-DRIED	POUNDS	(1)	(1)
CUSK FILLETS, FRESH AND FROZEN	DO	500,271	207,546
DRUM, RED, FILLETS, FRESH	DO	(1)	(1)
EELS:			
DRESSED, FROZEN	DO	(1)	(1)
SMOKED	DO	80,250	71,350
FLOUNDERS:			
DRESSED, FROZEN	DO	111,080	72,213
FILLETS:			
FRESH AND FROZEN	DO	46,657,205	28,712,007
BREADED RAW AND COOKED FROZEN	DO	5,401,860	3,562,373
STEAKS, FROZEN:			
RAW	DO	(2)	(2)
BREADED RAW	DO	(1)	(1)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
FLOUNDERS - CONTINUED			
SPECIALTIES, FROZEN:			
STUFFED, BREADED RAW AND COOKED	POUNDS	1,388,706	801,002
OTHER (DINNERS, PATTIES, IN SAUCES, ETC.)	DO	1,723,687	1,444,687
SALTED	DO	(1)	(1)
SMOKED	DO	(1)	(1)
GROUPERS:			
FILLETS:			
FRESH AND FROZEN	DO	189,215	139,333
BREADED RAW, FROZEN	DO	(1)	(1)
STEAKS, FRESH AND FROZEN	DO	78,304	57,705
HADDOCK:			
FILLETS:			
FRESH AND FROZEN	DO	8,867,093	6,925,383
BREADED, RAW AND COOKED, FRESH AND FROZEN	DO	3,790,823	2,598,457
STEAKS, FROZEN	DO	(2)	(2)
SPECIALTIES:			
FROZEN (AU GRATIN, DINNERS, IN SAUCES, ETC.)	DO	985,782	564,826
CANNED (FINNAN HADDIES AND ROE)	STANDARD CASES	(1)	(1)
SMOKED (INCLUDING FINNAN HADDIES)	POUNDS	62,380	38,575
HAKE:			
FILLETS AND STEAKS, FRESH AND FROZEN	DO	176,162	59,526
SALTED	DO	(1)	(1)
MEAL AND SCRAP	TONS	(1)	(1)
OIL	1000 LBS	(1)	(1)
HALIBUT:			
FILLETS, FRESH AND FROZEN	POUNDS	733,078	637,404
STEAKS:			
FRESH AND FROZEN	DO	7,642,791	6,022,950
BREADED, RAW AND COOKED, FROZEN	DO	(1)	(1)
CHEEKS AND FLETCHES, FROZEN	DO	552,435	617,040
SPECIALTIES, FROZEN (AU GRATIN, FISH AND CHIPS, IN SAUCES, ETC.)	DO	308,319	301,297
SMOKED	DO	525,078	323,316
OIL, LIVER	1000 LBS	(1)	(1)
HERRING:			
LAKE:			
DRESSED AND SCALED, FROZEN	POUNDS	(1)	(1)
FILLETS, FRESH AND FROZEN	DO	8,300	4,695
SALTED	DO	310,000	65,800
SMOKED	DO	69,950	34,634
SEA:			
FOR BAIT, FROZEN	DO	6,486,133	270,614
FILLETS:			
FROZEN	DO	(1)	(1)
BREADED RAW, FROZEN	DO	(1)	(1)
CANNED:			
MAINE SARDINES	STANDARD CASES	806,501	11,226,817
SPECIALTIES (SPREADS AND TID BITS)	DO	22,486	386,932
ANIMAL FOOD	DO	(1)	(1)
SPECIALTIES, CURED AND REFRIGERATED, BISMARKS, PARTY SNACKS, IN WINE AND CREAM SAUCES, ETC.	POUNDS	14,230,630	9,742,817
SALTED:			
FISH	DO	2,712,183	1,151,155
ROE	DO	252,029	417,719
EGGS WITH KELP	DO	79,553	59,329
SMOKED	DO	559,172	190,596
MEAL AND SCRAP	TONS	6,415	1,174,696
OIL	1000 LBS	5,437	328,407
PEARL ESSENCE	-	-	1,486,981
THREAD:			
MEAL AND SCRAP	TONS	548	99,049
OIL	1000 LBS	(1)	(1)
KING MACKEREL:			
FILLETS AND STEAKS, FROZEN	POUNDS	278,762	143,277
CANNED (PASTE)	STANDARD CASES	(1)	(1)
SMOKED	POUNDS	(1)	(1)
LAKE TROUT:			
FILLETS, FRESH AND FROZEN	DO	161,550	180,385
SMOKED	DO	85,900	82,308
LINGCOD:			
FILLETS, FRESH AND FROZEN	DO	1,256,425	442,872
SMOKED	DO	(1)	(1)
LUMPFISH, CAVIAR, CANNED	STANDARD CASES	(1)	(1)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
MACKEREL:			
ATLANTIC:			
FILLETS, FRESH.	POUNDS	(1)	(1)
CANNED (NATURAL).	STANDARD CASES	(1)	(1)
SALTED	POUNDS	(1)	(1)
SMOKED.	DO	31,000	24,250
JACK:			
FRESH AND FROZEN:			
DRESSED	DO	(1)	(1)
FOR BAIT.	DO	(1)	(1)
FILLETS	DO	(1)	(1)
CANNED:			
NATURAL AND IN TOMATO SAUCE	STANDARD CASES	188,609	1,533,935
ANIMAL FOOD	DO	315,287	5,189,390
SMOKED.	POUNDS	(1)	(1)
SUN-DRIED	DO	(1)	(1)
MEAL AND SCRAP.	TONS	(1)	(1)
PACIFIC:			
CANNED (NATURAL).	STANDARD CASES	(3)	(3)
SMOKED.	POUNDS	(1)	(1)
MARLIN:			
SPECIALTIES, FRESH (CAKES, BREADED AND COOKED).	DO	1,282,000	1,126,500
CANNED (SMOKED)	STANDARD CASES	(1)	(1)
SMOKED.	POUNDS	(1)	(1)
MENHADEN:			
MEAL AND SCRAP.	TONS	188,550	34,657,788
OIL	1000 LBS	186,283	16,833,277
SOLUBLES.	TONS	71,891	3,573,785
MOONEYE, SMOKED	POUNDS	(1)	(1)
MULLET:			
FRESH AND FROZEN:			
ROE	DO	90,875	76,245
SPLIT FOR CURING.	DO	(1)	(1)
SALTED:			
FISH.	DO	362,386	60,190
ROE	DO	19,235	19,095
SPLIT FOR CURING.	DO	(1)	(1)
SMOKED.	DO	(1)	(1)
OCEAN PERCH:			
ATLANTIC:			
FILLETS:			
FRESH AND FROZEN.	DO	16,008,084	4,922,216
BREADED, RAW AND COOKED, FROZEN.	DO	12,579,183	6,135,999
SPECIALTIES, FROZEN (DINNERS, BREADED AND COOKED, ETC.).	DO	(1)	(1)
PACIFIC, FRESH AND FROZEN:			
FILLETS	DO	3,241,990	1,154,430
SPECIALTIES (PATTIES, BREADED AND COOKED)	DO	(1)	(1)
PADDLEFISH:			
DRESSED, FROZEN	DO	(1)	(1)
SMOKED.	DO	9,300	[illegible],650
PERCH FILLETS, FRESH AND FROZEN	DO	430,915	169,715
PIKE OR PICKEREL FILLETS, FRESH AND FROZEN.	DO	43,250	21,675
POLLOCK:			
FILLETS:			
FRESH AND FROZEN.	DO	3,723,142	1,257,343
BREADED AND COOKED, FROZEN.	DO	(1)	(1)
STEAKS, FRESH AND FROZEN.	DO	(2)	(2)
CANNED (FLAKES)	STANDARD CASES	(1)	(1)
SALTED.	POUNDS	(1)	(1)
SMOKED.	DO	(1)	(1)
POMPANO FILLETS, FROZEN	DO	(1)	(1)
ROCKFISHES:			
FILLETS, FRESH AND FROZEN	DO	8,660,799	3,025,252
SALTED.	DO	(1)	(1)
SMOKED.	DO	(1)	(1)
SABLEFISH:			
FRESH AND FROZEN:			
FILLETS AND STEAKS.	DO	193,950	69,313
SPECIALTIES (IN RICE WINE MASH)	DO	21,370	20,334
SALTED.	DO	119,000	[illegible]
SMOKED.	DO	3,160,859	[illegible]
SUN-DRIED	DO	(1)	(1)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
SALMON:			
FRESH AND FROZEN:			
FOR BAIT	POUNDS	29,132	8,773
FILLETS	DO	793,314	971,975
STEAKS	DO	1,937,291	1,833,839
SPECIALTIES (ROE IN RICE WINE MASH, CAKES AND PATTIES BREADED RAW AND COOKED)	DO	282,600	320,312
EGGS FOR BAIT	DO	179,640	158,527
CANNED:			
CHINNOOK OR KING	STANDARD CASES	50,914	2,450,300
CHUM OR KETA	DO	465,498	12,529,011
PINK	DO	1,339,854	42,548,463
RED OR SOCKEYE	DO	1,831,192	75,258,033
SILVER OR COHO	DO	134,488	5,872,909
STEELHEAD	DO	254	14,718
TOTAL	DO	3,822,200	138,673,434
SMOKED	DO	2,534	234,462
CAVIAR	DO	2,994	535,205
EGGS FOR BAIT	DO	21,040	3,903,683
SPECIALTIES (SPREADS AND PASTE)	DO	(1)	(1)
ANIMAL FOOD	DO	30,759	298,064
SALTED:			
SALTED AND PICKLED	POUNDS	622,228	519,011
MILD-CURED	DO	4,085,303	4,869,374
CAVIAR	DO	509,095	929,208
BELLIES	DO	(1)	(1)
EGGS:			
FOR FOOD	DO	9,718,438	10,727,786
FOR BAIT	DO	(1)	(1)
SMOKED	DO	12,545,891	26,649,533
OIL	1000 LBS	(1)	(1)
SARDINES, PACIFIC, MILD-CURED	POUNDS	(1)	(1)
SAUGER FILLETS:			
FRESH AND FROZEN	DO	155,300	232,275
BREADED RAW, FROZEN	DO	(1)	(1)
SEA BASS:			
FILLETS AND STEAKS, FRESH AND FROZEN	DO	328,165	193,957
SMOKED	DO	1,555	1,041
SEA TROUT, FRESH AND FROZEN:			
DRESSED	DO	(1)	(1)
FILLETS	DO	8,529	6,617
SHAD:			
FILLETS, FRESH (BONED)	DO	25,601	60,418
CANNED:			
FISH	STANDARD CASES	(1)	(1)
ROE	DO	523	70,097
SPECIALTIES (SMOKED)	DO	(1)	(1)
SMOKED	POUNDS	32,000	15,450
SHARK:			
SMOKED	DO	(1)	(1)
LEATHERS	-	-	(1)
SHEEPSHEAD:			
DRESSED, FROZEN	POUNDS	(1)	(1)
SMOKED	DO	(1)	(1)
SMELT:			
FRESH AND FROZEN:			
FOR BAIT	POUNDS	(1)	(1)
DRESSED	DO	(1)	(1)
SPECIALTIES (BREADED AND COOKED, WHOLE)	DO	278,212	122,482
SALTED	DO	(1)	(1)
SMOKED	DO	(1)	(1)
FREEZE-DRIED	DO	(1)	(1)
SNAPPERS, FRESH AND FROZEN:			
RED, FILLETS AND STEAKS	DO	316,847	520,732
UNCLASSIFIED, FILLETS	DO	(1)	(1)
SPANISH MACKEREL FILLETS:			
FRESH AND FROZEN	DO	2,368,556	891,436
SPECIALTIES FROZEN (IN SAUCES)	DO	(1)	(1)
SPOT:			
FROZEN, DRESSED	DO	(1)	(1)
SALTED, SPLIT FOR CURING	DO	(1)	(1)
STRIPED BASS FILLETS, FRESH	DO	(1)	(1)
STURGEON:			
CANNED:			
CAVIAR	STANDARD CASES	3,487	2,782,122
SMOKED	DO	443	35,715
SMOKED	POUNDS	945,181	2,226,963
SWORDFISH:			
FRESH AND FROZEN:			
FILLETS	DO	(3)	(3)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
SWORDFISH - CONTINUED:			
STEAKS:			
RAW	POUNDS	2,756,911	2,071,719
BREADED RAW	DO	(1)	(1)
SPECIALTIES (IN SAUCES)	DO	(1)	(1)
SMOKED	DO	138,194	216,621
OIL, LIVER	1000 LBS	(1)	(1)
TEN POUNDER, FRESH (SPECIALTY MIX)	POUNDS	64,000	60,196
TRIGGERFISH FILLETS, FRESH	DO	(1)	(1)
TUNA:			
STEAKS, FRESH	DO	(1)	(1)
SPECIALTIES, FROZEN (CASSEROLES, PIES, CAKES, ETC.)	DO	380,261	153,793
CANNED:			
ALBACORE	STANDARD CASES	6,994,319	136,832,332
LIGHTMEAT	DO	15,069,021	243,741,263
TOTAL	DO	22,063,340	380,573,595
SPECIALTIES (SMOKED, SPREADS, WITH NOODLES, ETC.)	DO	29,965	569,414
ANIMAL FOOD	DO	3,281,197	44,001,312
SALTED:			
FISH	POUNDS	5,865	9,058
PASTE	DO	47,589	22,648
SMOKED	DO	313,324	402,102
FREEZE-DRIED (SALAD MIX)	DO	(1)	(1)
SUN-DRIED	DO	89,778	166,475
MEAL AND SCRAP	TONS	(1)	(1)
OIL (BODY AND LIVER)	1000 LBS	(1)	(1)
SOLUBLES	TONS	(1)	(1)
TUNALIKE FISH (BONITO AND YELLOWTAIL):			
FILLETS, FRESH AND FROZEN	POUNDS	(1)	(1)
CANNED:			
REGULAR	STANDARD CASES	139,541	1,450,339
SMOKED	DO	(1)	(1)
SMOKED	POUNDS	66,907	53,120
WAHOO:			
CANNED (NATURAL)	STANDARD CASES	(1)	(1)
SMOKED	POUNDS	(1)	(1)
WHITEBASS FILLETS, FRESH AND FROZEN	DO	75,000	58,150
WHITEFISH:			
FILLETS, FRESH AND FROZEN	DO	969,800	1,086,345
CANNED:			
FISH	STANDARD CASES	(1)	(1)
CAVIAR	DO	5,315	372,371
SMOKED	POUNDS	1,958,509	2,291,489
WHITING:			
FRESH AND FROZEN:			
HEADED AND DRESSED	DO	15,624,520	3,791,587
DRESSED AND SKINNED	DO	(1)	(1)
FILLETS:			
RAW	DO	782,446	266,998
BREADED, RAW AND COOKED	DO	(1)	(1)
SMOKED	DO	918,170	473,865
WOLFFISH, FRESH AND FROZEN:			
FILLETS:			
RAW	DO	138,464	54,318
BREADED, RAW AND COOKED	DO	358,295	188,388
STEAKS	DO	(2)	(2)
YELLOW PERCH FILLETS:			
FRESH AND FROZEN	DO	2,025,400	1,724,460
BREADED, RAW AND COOKED	DO	2,282,773	1,918,507
YELLOW PIKE:			
FRESH AND FROZEN:			
DRESSED	DO	(1)	(1)
FILLETS:			
RAW	DO	665,400	899,781
BREADED RAW	DO	53,941	59,387
CRABS:			
FRESH AND FROZEN:			
BLUE, HARD (INCLUDING ROCK):			
COOKED MEAT	DO	15,297,760	28,657,824
SPECIALTIES:			
BREADED, RAW AND COOKED:			
CAKES AND PATTIES	DO	1,087,856	1,081,345
DEVILED	DO	4,715,190	4,256,286
STUFFED	DO	1,461,097	1,343,690
OTHER (BURGERS, CUTLETS, DRESSING, ROLLS, IMPERIAL, FINGERS, ETC.)	DO	485,257	343,252

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
CRABS - CONTINUED:			
RAW AND COOKED (COCKTAILS, SOFT-SHELL, GUMBOS, AU-GRATIN, ETC.)	POUNDS	194,261	129,100
DUNGENESS:			
COOKED MEAT	DO	6,225,529	9,316,885
WHOLE, COOKED	DO	2,583,602	1,177,247
SECTIONS	DO	2,405,560	1,133,021
SPECIALTIES (COCKTAILS AND DIPS)	DO	555,529	748,969
KING:			
COOKED MEAT	DO	7,040,798	14,147,875
WHOLE, COOKED	DO	1,651,001	1,733,995
SECTIONS	DO	5,061,187	5,937,001
SPECIALTIES (COCKTAILS AND BREADED COOKED CAKES)	DO	(1)	(1)
SNOW:			
COOKED MEAT	DO	1,165,791	1,619,121
WHOLE COOKED	DO	20,807	11,408
SECTIONS	DO	1,099,318	429,138
STONE, CLAWS COOKED	DO	(1)	(1)
CANNED:			
REGULAR:			
BLUE (INCLUDING ROCK CRABS)	STANDARD CASES	104,284	3,406,936
DUNGENESS	DO	58,742	2,460,453
KING	DO	55,857	3,017,099
SNOW	DO	42,527	1,604,292
SPECIALTIES (DEVILED, DIPS, SPREADS, SOUPS, GUMBO, BISQUES, NEWBURGS, AND SMOKED)	DO	26,206	660,676
FREEZE-DRIED (SALAD MIX)	POUNDS	(1)	(1)
BACKSHELLS, CLEANED AND POLISHED	-	-	148,148
MEAL AND SCRAP	TONS	11,481	587,733
CRAWFISH:			
COOKED MEAT, FRESH	POUNDS	241,707	573,248
SPECIALTIES:			
FROZEN (BISQUE, SOUP, AND FLAVORING)	DO	66,094	36,701
CANNED (BISQUE)	STANDARD CASES	(1)	(1)
LOBSTERS:			
AMERICAN:			
FRESH AND FROZEN:			
COOKED MEAT	POUNDS	788,779	4,278,498
WHOLE	DO	(1)	(1)
CANNED (MEAT, DEVILED, DIPS, NEWBURGS, SPREADS, THERMIDOR, PASTE, ETC.)	STANDARD CASES	14,916	410,704
SPINY:			
FRESH AND FROZEN:			
TAILS, RAW	POUNDS	2,423,951	5,830,175
COOKED:			
MEAT	DO	(1)	(1)
WHOLE	DO	1,278,416	1,232,629
SPECIALTIES:			
FROZEN (NEWBURG SAUCES)	DO	(1)	(1)
CANNED (SOUP)	STANDARD CASES	(1)	(1)
SHRIMP:			
FRESH AND FROZEN:			
RAW HEADLESS	POUNDS	92,326,475	95,694,099
PEELED (INCLUDING DEVEINED):			
RAW	DO	38,390,928	54,424,681
COOKED	DO	20,108,119	33,247,744
BREADED:			
RAW	DO	102,864,041	109,276,307
COOKED	DO	2,088,531	2,890,055
COOKED, WHOLE	DO	7,675,099	3,628,437
SPECIALTIES:			
COOKED:			
COCKTAILS, REFRIGERATED	DO	10,942,993	10,887,490
CREOLES	DO	1,242,623	763,443
GUMBO	DO	338,108	179,413
OTHER (DIPS, CASSEROLES, NEWBURGS, WITH EGGPLANT, CURRIES, ETC.)	DO	347,769	199,010
BREADED, RAW AND COOKED:			
CAKES AND PATTIES	DO	1,030,393	815,541
STUFFED	DO	1,009,944	1,074,736
DINNERS	DO	580,431	583,603

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
SHRIMP - CONTINUED:			
SPECIALTIES, BREADED, RAW AND COOKED - CONTINUED:			
OTHER (STEAKS, HAWAIIAN, BURGERS, PORTIONS, WITH SAUSAGE CROQUETTES, ETC.)	POUNDS	1,868,924	1,013,929
CANNED:			
REGULAR	STANDARD CASES	3,722,253	37,276,782
SPECIALTIES (CREOLES, DIPS, GUMBOS, NEWBURGS, PASTES. SOUPS, BISQUES, ETC.)	DO	17,855	358,971
CURED:			
FREEZE-DRIED	POUNDS	(1)	(1)
SUN-DRIED	DO	815,111	1,289,827
SMOKED	DO	(1)	(1)
MEAL AND SCRAP	TONS	699	34,470
ABALONE:			
SHUCKED MEATS, FRESH	POUNDS	492	984
STEAKS:			
FRESH AND FROZEN	DO	462,469	1,073,577
BREADED RAW, FROZEN	DO	(1)	(1)
SPECIALTIES, FROZEN (PATTIES, BREADED RAW)	DO	(1)	(1)
CANNED (NATURAL)	STANDARD CASES	(1)	(1)
CLAMS:			
FRESH AND FROZEN:			
SHUCKED:			
HARD (INCLUDES SURF AND OCEAN QUAHOG)	GALLONS	5,639,675	19,892,435
RANGIA	DO	(1)	(1)
RAZOR	DO	29,521	127,278
SOFT	DO	768,945	6,638,687
SPECIALTIES:			
RAW AND COOKED:			
BREADED	POUNDS	5,273,271	5,109,239
CAKES AND PATTIES	DO	1,546,848	920,940
STUFFED	DO	462,390	395,081
OTHER (DEVILED, STICKS, ETC.)	DO	468,552	420,394
OTHER (JUICE, BLOCKS, CHOWDER, COCKTAILS, ETC.)	DO	477,138	300,762
CANNED:			
WHOLE AND MINCED:			
HARD, SOFT, AND SURF	STANDARD CASES	578,874	10,176,169
RAZOR	DO	1,365	66,219
CHOWDER AND JUICE (HARD, SOFT, AND SURF)	DO	1,892,794	15,418,850
SPECIALTIES (A-LA-KINGS, FRITTERS, DIPS, SPREADS, CRISPS, SOUPS, IN THE SHELL, ETC.)	DO	136,316	2,496,843
SHELLS, CLEANED AND POLISHED	-	-	(1)
CONCHS:			
FRESH AND FROZEN:			
MEATS	POUNDS	387,585	240,416
SPECIALTIES (IN SAUCES)	DO	(1)	(1)
CANNED (MEAT AND CHOWDER)	STANDARD CASES	(1)	(1)
MUSSELS:			
SEA:			
SPECIALTIES, FROZEN (IN TOMATO SAUCE)	POUNDS	(1)	(1)
CANNED (MEAT AND BISQUES)	STANDARD CASES	(1)	(1)
BUTTONS	GROSS	(1)	(1)
FRESHWATER, SHELL PRODUCTS (LIME AND CHIPS)	TONS	(1)	(1)
OCTOPUS:			
FRESH, COOKED	POUNDS	(1)	(1)
SUN-DRIED	DO	(1)	(1)
OYSTERS:			
FRESH AND FROZEN:			
EASTERN:			
SHUCKED	GALLONS	4,563,080	37,259,533
STEAMED	POUNDS	(1)	(1)
SPECIALTIES:			
BREADED, RAW AND COOKED	DO	4,914,563	4,851,294
OTHER (PIES, STEWS, DRESSINGS, ETC.)	DO	808,664	509,153
PACIFIC:			
SHUCKED	GALLONS	749,915	4,352,973
SPECIALTIES (BREADED RAW)	POUNDS	(1)	(1)
WESTERN, SHUCKED	GALLONS	5,835	195,893

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
OYSTERS - CONTINUED:			
CANNED:			
REGULAR (EASTERN AND PACIFIC)	STANDARD CASES	271,968	2,101,517
SPECIALTIES:			
SMOKED	DO	692	58,194
STEWS	DO	265,867	5,089,758
BISQUE AND SOUPS	DO	3,630	33,053
ANIMAL FOOD	DO	(1)	(1)
SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY GRIT	TONS	166,679	3,076,664
LIME, BURNED AND UNBURNED	DO	37,358	332,676
SCALLOPS:			
FRESH AND FROZEN:			
SHUCKED:			
BAY	GALLONS	214,301	2,896,804
CALICO	DO	193,554	1,492,417
SEA	POUNDS	2,647,320	3,631,974
SPECIALTIES:			
BREADED, RAW, AND COOKED	DO	8,496,117	12,168,139
OTHER (IN SAUCES, DINNERS, BITES, ETC.)	DO	597,098	685,786
CANNED (IN SAUCES)	STANDARD CASES	(1)	(1)
SQUID:			
FROZEN:			
NATURAL	POUNDS	9,770,368	1,227,002
SPECIALTIES (IN TOMATO SAUCE)	DO	(1)	(1)
CANNED	STANDARD CASES	197,352	992,907
SALTED	POUNDS	(1)	(1)
TURTLE:			
FRESH AND FROZEN, MEAT	DO	(1)	(1)
CANNED (MEAT, SOUPS, AND CHOWDERS)	STANDARD CASES	7,484	213,899
FROGS:			
FRESH AND FROZEN, MEAT	POUNDS	(1)	(1)
SPECIALTIES, FROZEN (BREADED RAW)	DO	27,360	35,356
SEAWEEDS, KELP WITH URCHIN ROE:			
FRESH	DO	(1)	(1)
SALTED	DO	(1)	(1)
WHALE:			
MEAT, FROZEN (FOR ANIMAL FOOD)	DO	482,974	48,297
MEAL AND SCRAP	TONS	331	44,212
OIL:			
SPERM	1,000 LBS	602	39,888
WHALE	DO	78	6,131
SEALSKINS, PROCESSED	-	-	6,257,721
UNCLASSIFIED:			
FRESH AND FROZEN PACKAGED:			
FISH:			
NOT BREADED:			
FILLETS AND STEAKS, RAW	POUNDS	5,504,494	1,651,216
OTHER (DRESSED, FOR BAIT, OR ANIMAL FOOD, ETC.)	DO	2,110,261	598,162
STICKS, BREADED:			
RAW	DO	4,940,540	2,215,744
COOKED	DO	79,668,386	35,295,963
PORTIONS:			
RAW:			
NOT BREADED	DO	9,964,057	4,468,380
BREADED	DO	144,614,473	58,165,713
BREADED AND COOKED	DO	110,983,526	55,505,750
FILLETS AND STEAKS, BREADED, RAW AND COOKED	DO	2,546,343	1,145,884
SHELLFISH, NATURAL	DO	2,512,180	2,335,177
FISH AND SHELLFISH:			
CAKES AND PATTIES, BREADED, RAW AND COOKED	DO	11,523,248	5,256,065
DINNERS, BREADED, RAW OR COOKED	DO	14,901,928	10,178,894
SPECIALTIES	DO	7,548,814	6,524,358
CANNED FISH AND SHELLFISH:			
GEFILTEFISH	STANDARD CASES	284,839	5,680,355
ANIMAL FOOD	DO	7,318,251	53,630,958
MISCELLANEOUS (CHOWDERS, GUMBOS, AND UNCLASSIFIED FISH AND SHELLFISH)	DO	119,479	2,274,431

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	QUANTITY	DOLLARS
UNCLASSIFIED - CONTINUED:			
CURED:			
SALTED	POUNDS	433,329	199,774
SMOKED	DO	295,751	402,433
FREEZE-DRIED	DO	(4)	(4)
SUN-DRIED	DO	320,763	2,144,116
MEAL AND SCRAP:			
TUNA AND MACKEREL	TONS	26,674	3,753,067
UNCLASSIFIED	DO	25,438	4,451,069
OIL:			
TUNA AND MACKEREL	1,000 POUNDS	3,534	168,055
UNCLASSIFIED	DO	3,164	307,709
FISH SOLUBLES	TONS	23,077	1,372,600
OTHER (AGAR-AGAR, IRISH MOSS EXTRACTS, KELP, FISH FEED PELLETS, ETC.)	-	-	25,010,094
GRAND TOTAL	-	-	1,72[illegible]

1/ INCLUDED WITH UNCLASSIFIED PRODUCTS.

2/ INCLUDED WITH FILLET PRODUCTION.

3/ THE PACK OF PACIFIC MACKEREL HAS BEEN INCLUDED WITH JACK MACKEREL.

4/ THE PRODUCTION OF FREEZE-DRIED PRODUCTS HAS BEEN INCLUDED WITH SUN-DRIED PRODUCTS.

NOTE:--SOME OF THE ABOVE ITEMS HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM FOREIGN COUNTRIES; THEREFORE, THE PRODUCTION CANNOT BE CORRELATED DIRECTLY WITH LANDINGS. CERTAIN ITEMS SUCH AS SALTED ALEWIVES AND MILD-CURED SALMON ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING. THE LIME AND POULTRY FEED PROCESSED SHELL PRODUCTS WERE PROCESSED FROM LIVE AND REEF MOLLUSK SHELLS THAT ARE NOT INCLUDED IN THE LANDINGS STATISTICS.

CURED FISHERY PRODUCTS, 1970

ITEM	POUNDS	DOLLARS
SALTED AND PICKLED:		
ALEWIVES	2,582,100	530,800
COD	2,704,272	1,123,663
HERRING:		
LAKE	310,000	65,800
SEA	17,274,395	11,371,020
MULLET	381,621	79,285
SABLEFISH	119,000	55,800
SALMON	14,935,064	17,045,379
TUNA	53,454	31,706
OTHER (ANCHOVIES, FLOUNDER, HAKE, ATLANTIC MACKEREL, MULLET, POLLOCK, ROCKFISHES, PACIFIC SARDINE, SALMON, SMELT, SQUID, SPOT, AND KELP WITH URCHIN ROE	433,329	199,774
TOTAL	38,793,235	30,503,227
SMOKED:		
ALEWIVES	13,700	1,944
BARRACUDA	7,123	5,061
BUFFALOFISH	27,000	27,650
BUTTERFISH	17,000	18,600
CARP	380,150	187,799
CATFISH	14,070	13,489
CHUBS	8,374,221	6,312,061
COD	210,683	102,659
EELS	80,250	71,350
HADDOCK	62,380	38,575
HALIBUT	525,078	323,316
HERRING:		
LAKE	69,950	34,634
SEA	559,172	190,596
LAKE TROUT	85,900	82,308
MACKEREL, ATLANTIC	31,000	24,250
PADDLEFISH	9,900	7,650
SABLEFISH	3,160,889	2,636,511
SALMON	12,546,891	26,649,533
SEA BASS	1,555	1,041
SHAD	32,000	15,450
STURGEON	945,181	2,226,963
SWORDFISH	138,194	216,621
TUNA	313,324	402,102
TUNALIKE (BONITO AND YELLOWTAIL)	66,907	53,120
WHITEFISH	1,958,569	2,291,489
WHITING	918,170	473,865
OTHER (FLOUNDER, JACK MACKEREL, KING MACKEREL, PACIFIC MACKEREL, LINGCOD, MARLIN, MOONEYE, MULLET, POLLOCK, ROCKFISHES, SHARKS, SHEEPSHEAD, SMELT, WAHOO, SHRIMP AND UNCLASSIFIED FISH	295,751	402,433
TOTAL	30,845,008	42,811,070
SUN-DRIED:		
BIGEYE SCAD	5,550	5,950
COD	7,060	16,998
TUNA	89,778	166,475
SHRIMP	815,111	1,289,827
OTHER (AMBERJACK, CREVALLE, JACK MACKEREL, SABLEFISH, OCTOPUS, AND UNCLASSIFIED FISH)	320,763	2,144,116
TOTAL	1,238,262	3,623,366
FREEZE-DRIED (SMELT, TUNA, CRAB, AND SHRIMP)	(1)	(1)
GRAND TOTAL	70,876,505	76,937,663

1/ INCLUDED WITH UNCLASSIFIED, SUN-DRIED PRODUCTS. NOTE:-- PRODUCTS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

GENERAL REVIEW

CANNED FISHERY PRODUCTS, 1970

The pack of canned fishery products in the United States, American Samoa, and Puerto Rico was 46.2 million standard cases (1.3 billion pounds) worth $741.8 million to the packers--an increase of 5.4 million cases (177.6 million pounds) and $166.2 million compared with 1969. The gain resulted principally from record packs of canned tuna, shrimp, and animal food and greater packs of salmon, crab meat, and clams and clam products. The pack of canned Maine sardines, alewives, and mackerel declined compared with 1969.

The pack for human consumption (805.2 million pounds) increased 12 percent and the pack for bait and animal food (540.7 million) increased 20 percent compared with 1969. The value of three items--salmon, tuna, and animal food--accounted for 84 percent of the total value received by the packers. Animal food containing less than 10 pounds of fish per standard case of 48 pounds (4,279,615 standard cases worth $20,790,648) is not included in these data.

Tuna. The pack of canned tuna was a record 22.1 million cases (437.6 million pounds) worth a record $380.6 million--a gain of 2.0 million cases and $83.1 million compared with 1969, the former record year. The Pacific coast led in production with 55 percent of the total, followed by Puerto Rico with 29 percent, and the Atlantic coast, Hawaii, and American Samoa with 16 percent. In 1970, areas other than California accounted for 52 percent of the pack; in 1955, they accounted for only 17 percent. The greater production in Puerto Rico and American Samoa has been the principal reason for the increase.

Salmon. The pack of canned salmon was 3.8 million cases worth $138.7 million--an increase of 1.3 million cases (50 percent) and $48.4 million (54 percent) compared with 1969. The combined Washington and Oregon packs (257,700 cases) were 4 percent less than in 1969, but the Alaska pack (3.6 million cases) increased 56 percent. Alaska accounted for 93 percent of the volume and 90 percent of the value of the total pack.

Shrimp. The pack of canned shrimp was a record 3.7 million cases worth a record $37.3 million--an increase of 651,200 cases and $9.5 million compared with 1969. The Gulf States led in production with 2.5 million cases--68 percent of the pack: Alaska was second with a record 1.1 million cases--30 percent of the pack. The rest was canned in Maine, Washington, and Oregon.

Clams. The pack of canned clams and clam products was 2.5 million cases worth a record $25.7 million--an increase of 7 percent in volume and 16 percent in value compared with 1969. The production of whole and minced clams was 580,200 cases worth $10.2 million--148,100 cases and $3.3 million more than in the previous year. The production of clam chowder and juice (1.9 million cases worth $15.4 million) was slightly greater than in 1969.

Sardines. The pack of canned Maine sardines (sea herring) was 806,500 cases worth $11.2 million--compared with 1.0 million cases worth $11.5 million in 1969. Sea herring landings in Maine and fresh Canadian sea herring imports into Maine (used principally for canning and reduction) both declined compared with the previous year.

Pacific sardines were not canned in 1970. The California State Legislature, in an effort to conserve the resource, established an indefinite moratorium on sardine fishing in California waters.

Crabs. The pack of canned crab meat was 261,400 cases worth $10.5 million--an increase of 1 percent in volume, but a decline of 27 percent in value compared with 1969. The composition of the pack by species was somewhat different than in 1969. The pack of blue crab meat in the Atlantic and Gulf areas was 104,300 cases--slightly less than the record 106,800 cases packed in 1969. On the Pacific coast, the pack of king crab meat (55,900 cases) declined for the fourth consecutive year. The king crab pack was 13,700 cases less than in 1969, and 390,100 cases less than the record pack of 1966. The 58,700 cases of Dungeness crab meat packed in 1970 increased 12 percent compared with 1969. The pack of snow crab continued the upward trend begun in 1967 and reached a record 42,500 cases--47 percent more than in 1969.

Mackerel. The pack of 188,600 cases of canned mackerel (consisting principally of jack mackerel) was 50 percent less than in 1969, continuing the downward trend that began in 1961. The California State Legislature, in an effort to conserve the dwindling Pacific mackerel resource, approved legislation prohibiting commercial fishing for Pacific mackerel for 2 years. The law became effective in August 1970.

Data on the production of canned fishery products during 1970 have been published previously in Current Fishery Statistics No. 5560.

SUMMARY OF PRODUCTION, BY PRODUCTS, 1970

PRODUCTS	PLANTS	PRODUCTION			
	NUMBER	STANDARD CASES	POUNDS PER CASE	POUNDS	DOLLARS
CANNED PRODUCTS:					
FOR HUMAN CONSUMPTION:					
SALMON.	81	3,822,200	48	183,465,600	138,673,434
SARDINES, MAINE	21	806,501	23.4	18,872,123	11,226,817
TUNA:					
SOLID	28	6,231,699	21	130,865,679	120,037,232
CHUNKS.	18	14,536,701	19.5	283,465,670	245,452,602
FLAKES AND GRATED	18	1,294,940	18	23,308,920	15,083,761
TOTAL	1/28	22,063,340	-	437,640,269	380,573,595
TUNALIKE FISH	5	139,541	21-19.5-18	2,814,899	1,450,339
ALEWIVES.	4	22,538	45	1,014,210	133,532
MACKEREL.	6	188,609	45	8,487,405	1,533,935
GEFILTEFISH	4	284,839	48	13,672,272	5,680,355
SALMON, SMOKED.	27	2,534	48	121,632	234,462
STURGEON, SMOKED.	12	443	48	21,264	35,715
TUNA SPECIALITIES:					
CREAMED, SPREADS, WITH NOODLES, AND WITH CHILI	5	28,599	48	1,372,752	520,878
SMOKED.	5	1,366	48	65,568	48,536
ANCHOVY PASTE	4	1,873	48	89,904	134,727
MISCELLANEOUS FISH SPECIALTIES. .	24	124,532	48	5,977,536	1,975,597
FISH ROE AND CAVIAR	15	23,457	48	1,125,936	4,095,998
TOTAL FISH.	-	27,510,372	-	674,741,370	546,317,920
CRAB MEAT	32	261,410	19.5	5,097,495	10,488,780
CRAB SPECIALTIES.	8	26,206	48	1,257,888	660,676
LOBSTER MEAT AND SPECIALTIES. . .	6	14,916	48	715,968	410,704
SHRIMP.	36	3,722,253	6.75	2/25,125,208	37,276,782
SHRIMP SPECIALTIES.	9	17,855	48	857,040	358,971
CLAMS AND CLAM PRODUCTS:					
WHOLE	10	7,498	15	3/112,470	288,894
MINCED.	16	572,741	15	3/8,591,115	9,953,494
CHOWDER	14	1,664,524	30	3/49,935,720	14,286,957
JUICE	9	228,450	30	3/6,853,500	1,131,893
TOTAL	1/29	2,473,213	-	3/65,492,805	25,661,238
CLAM SPECIALTIES.	14	136,316	48	6,543,168	2,496,843
OYSTERS	12	271,968	7	2/1,903,776	2,101,517
OYSTER SPECIALTIES:					
SMOKED.	5	692	48	33,216	58,194
STEWS	9	265,867	48	12,761,616	5,089,758
BISQUE AND SOUPS.	3	3,630	48	174,240	33,053
SQUID	8	197,352	48	9,472,896	992,907
TURTLE MEAT, SOUPS, AND STEWS . .	4	7,484	48	359,232	213,899
MISCELLANEOUS SHELLFISH SPECIALTIES.	9	13,378	48	642,144	463,352
TOTAL SHELLFISH	-	7,412,540	-	130,436,692	86,306,674
TOTAL FOR HUMAN CONSUMPTION . .	-	34,922,912	-	805,178,062	632,624,594
BAIT AND ANIMAL FOOD:					
ANIMAL FOOD	49	11,243,806	48	539,702,688	105,231,587
SALMON EGGS FOR BAIT.	11	21,040	48	1,009,920	3,903,683
TOTAL BAIT AND ANIMAL FOOD. . .	60	11,264,846	-	540,712,608	109,135,270
GRAND TOTAL	1/254	46,187,758	-	1,345,890,670	741,759,864

1/ EXCLUSIVE OF DUPLICATION.
2/ DRAINED WEIGHT.
3/ "CUT OUT" OR "DRAINED" WEIGHT OF CAN CONTENTS ARE GIVEN FOR WHOLE OR MINCED CLAMS, AND NET CONTENTS FOR OTHER CLAM PRODUCTS.

VALUE OF PRODUCTION, BY STATES, 1970

STATE	CANNED FISHERY PRODUCTS
	DOLLARS
MAINE	18,459,038
MASSACHUSETTS AND CONNECTICUT	22,601,098
NEW YORK	7,699,891
NEW JERSEY	18,490,327
PENNSYLVANIA AND DELAWARE	9,528,677
MARYLAND	12,304,405
VIRGINIA	599,948
NORTH CAROLINA AND SOUTH CAROLINA	3,853,614
FLORIDA AND TEXAS	205,492
MISSISSIPPI	17,741,590
LOUISIANA	26,492,865
ILLINOIS, KANSAS, AND NEBRASKA	186,819
MICHIGAN AND WISCONSIN	3,550,120
ALASKA	139,345,487
WASHINGTON	23,326,096
OREGON	36,411,709
CALIFORNIA	222,253,493
HAWAII AND AMERICAN SAMOA	60,904,257
PUERTO RICO	117,804,938
TOTAL	741,759,864

FACTORS USED TO CONVERT STANDARD CASES TO POUNDS

PRODUCT	1941	1942	1943	1944 TO 1947	1948 TO 1951	1952	1953 TO 1957	1958 TO 1964	1965 TO 1969	1970
	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE	POUNDS PER CASE
SARDINES:										
MAINE	25	20.3	20.3	20.3	20.3	20.3	20.3	23.4	23.4	23.4
PACIFIC	48	45	45	45	45	45	45	45	45	45
TUNA AND TUNALIKE FISHES:										
SOLID	21	22.5	22.5	21	21	21	21	21	21	21
CHUNKS	-	-	-	(1)	(1)	19.5	19.5	19.5	19.5	19.5
FLAKES	21	18	18	18	18	18	18	18	18	18
MACKEREL	48	45	45	45	45	45	45	45	45	45
ALEWIVES	48	48	45	45	45	45	45	45	45	45
ANCHOVIES	48	48	48	48	48	48	31.25	31.25	31.25	31.25
SHAD	48	48	48	45	45	45	45	45	45	45
FISH FLAKES	48	48	48	42	42	42	48	48	48	48
OYSTERS	15	15	22.5	22.5	14	14	14	14	14	7
SHRIMP, WET PACK	17.25	21	21	21	15	15	15	15	6.75	6.75
CLAM PRODUCTS:										
WHOLE AND MINCED	15	15	15	15	15	15	15	15	15	15
JUICE, CHOWDER, BROTH, ETC.	30	30	30	30	30	30	30	30	30	30
CRABS	39	39	39	39	19.5	19.5	19.5	19.5	19.5	19.5
ALL OTHER	48	48	48	48	48	48	48	48	48	48

1/ PRIOR TO 1952 CHUNK PACK TUNA WAS INCLUDED WITH THE FLAKE PACK. NOTE:--THE FACTORS LISTED ABOVE WERE USED IN CONVERTING STANDARD CASES REPORTED IN THE CANNED FISHERY PRODUCTS BULLETINS FOR THE YEARS INDICATED.

PLANTS PRODUCING CANNED FISHERY PRODUCTS, 1970

AREA AND STATE	PLANTS
	NUMBER
NEW ENGLAND:	
MAINE	25
MASSACHUSETTS	5
CONNECTICUT	1
TOTAL	31
MIDDLE ATLANTIC:	
NEW YORK	9
NEW JERSEY	12
PENNSYLVANIA	4
DELAWARE	1
TOTAL	26
CHESAPEAKE BAY:	
MARYLAND	4
VIRGINIA	5
TOTAL	9
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	4
SOUTH CAROLINA	2
FLORIDA	3
MISSISSIPPI	10
LOUISIANA	17
TEXAS	2
TOTAL	38
GREAT LAKES AND MISSISSIPPI RIVER:	
ILLINOIS	1
KANSAS	1
MICHIGAN	2
NEBRASKA	1
WISCONSIN	3
TOTAL	8
PACIFIC COAST:	
WASHINGTON	46
OREGON	15
CALIFORNIA	19
ALASKA	55
TOTAL	135
HAWAII	1
AMERICAN SAMOA	2
PUERTO RICO	4
GRAND TOTAL	254

PACK OF SALMON, 1970

SPECIES	ALASKA		WASHINGTON	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS
CHINOOK OR KING . .	27,181	1,079,398	2,783	122,118
CHUM OR KETA. . . .	449,946	12,031,524	14,067	452,545
PINK.	1,328,532	42,104,906	11,191	437,797
RED OR SOCKEYE. . .	1,705,471	67,430,141	108,702	6,802,250
SILVER OR COHO. . .	53,378	1,931,563	41,241	1,909,128
TOTAL	3,564,508	124,577,532	177,984	9,723,838

SPECIES	OREGON		TOTAL	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS
CHINOOK OR KING . .	1/20,950	1/1,248,784	50,914	2,450,300
CHUM OR KETA. . . .	1,485	44,942	465,498	12,529,011
PINK.	131	5,760	1,339,854	42,548,463
RED OR SOCKEYE. . .	17,019	1,025,642	1,831,192	75,258,033
SILVER OR COHO. . .	39,869	2,032,218	134,488	5,872,909
STEELHEAD	254	14,718	254	14,718
TOTAL	79,708	4,372,064	3,822,200	138,673,434

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 1-LB CANS, EACH CONTAINING 16 OZ. SALMON WERE CANNED IN 45 PLANTS ALASKA, 24 PLANTS IN WASHINGTON, 9 PLANTS IN OREGON, AND 3 PLANTS IN CALIFORNIA. THE PACK OF SMOKED SALMON IS INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS."

PACK OF SALMON, BY CAN SIZES, 1970

STATE AND SPECIES	CAN SIZE							
	4-POUND TALL		1-POUND TALL		1/2-POUND FLAT		1/4-POUND FLAT	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS
ALASKA:								
CHINOOK OR KING .	31	911	11,871	383,764	12,520	560,723	2,759	134,000
CHUM OR KETA. . .	17,481	472,629	371,236	9,715,783	61,205	1,842,280	24	832
PINK.	63,829	1,918,288	1,011,053	30,967,220	250,845	9,116,099	2,805	103,299
RED OR SOCKEYE. .	9,269	361,539	1,340,064	49,801,549	324,105	15,570,546	32,033	1,696,507
SILVER OR COHO. .	3,644	127,535	32,740	1,095,613	13,511	525,504	3,483	182,911
TOTAL . . .	94,254	2,880,902	2,766,964	91,963,929	662,186	27,615,152	41,104	2,117,549
WASHINGTON:								
CHINOOK OR KING .	-	-	664	22,014	2,037	95,225	82	4,879
CHUM OR KETA. . .	500	14,176	3,786	109,198	9,713	326,723	68	2,448
PINK.	-	-	2,191	64,324	8,615	355,812	385	17,661
RED OR SOCKEYE. .	300	11,200	22	946	50,345	2,859 865	58,035	3,930,239
SILVER OR COHO. .	763	27,460	11,412	419,154	13,528	600,054	15,538	862,460
TOTAL. . .	1,563	52,836	18,075	615,636	84,238	4,237,679	74,108	4,817,687
OREGON:								
CHINOOK OR KING 1/	-	-	544	31,290	17,592	1,015,747	2,814	201,747
CHUM OR KETA. . .	600	17,400	223	6,240	622	19,852	40	1,450
PINK.	-	-	-	-	1	40	130	5,720
RED OR SOCKEYE. .	-	-	-	-	1,157	67,882	15,862	957,760
SILVER OR COHO. .	742	27,450	3,153	112,910	15,566	661,220	20,408	1,230,638
STEELHEAD	-	-	-	-	-	-	254	14,718
TOTAL. . .	1,342	44,850	3,920	150,440	34,938	1,764,741	39,508	2,412,033
GRAND TOTAL . .	97,159	2,978,588	2,788,959	92,730,005	781,362	33,617,572	154,720	9,347,269

1/ INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CANS CONVERTED TO THE EQUIVALENT OF 48 1-LB CANS, EACH CONTAINING 16 OZ.

GENERAL REVIEW

WASHINGTON AND OREGON SALMON PACK BY DISTRICTS, 1970

SPECIES	PUGET SOUND		COLUMBIA		[illegible]		[illegible]	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	[illegible]	[illegible]	[illegible]	[illegible]
CHINOOK OR KING . .	843	41,333	22,007	1,284,808	[illegible]	[illegible]	[illegible]	[illegible]
CHUM OR KETA. . . .	12,385	407,827	2,775	78,684	-	-	[illegible]	[illegible]
PINK.	9,159	378,797	2,163	64,76[illegible]	-	[illegible]	[illegible]	[illegible]
RED OR SOCKEYE. . .	108,588	6,795,633	[illegible]	[illegible]	-	-	[illegible]	[illegible]
SILVER OR COHO. . .	37,636	1,780,725	[illegible]	[illegible]	-	-	[illegible]	[illegible]
STEELHEAD	-	-	[illegible]	[illegible]	-	-	[illegible]	[illegible]
TOTAL	168,611	9,404,315	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1/INCLUDES A SMALL PACK PRODUCED IN CALIFORNIA.
NOTE:-- "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 1-LB CANS, EACH CONTAINING 16 OZ.

PUGET SOUND SALMON PACK, BY ORIGIN OF FISH, 1970

SPECIES	[illegible] FISH	ALASKAN FISH	TOTAL FISH
	STANDARD CASES	STANDARD CASES	STANDARD CASES
CHINOOK OR KING	531	312	843
CHUM OR KETA.	1,473	10,912	12,385
PINK.	674	8,485	9,159
RED OR SOCKEYE.	97,724	10,864	108,588
SILVER OR COHO.	36,652	984	37,636
TOTAL.	137,054	31,557	168,611

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 1-LB CANS, EACH CONTAINING 16 OZ.

PACK OF MAINE SARDINES, 1970

STYLE OF PACK	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
IN SOYBEAN OIL.	658,974	9,439,924
IN OLIVE OIL.	1,873	30,302
IN MUSTARD SAUCE.	82,350	1,092,805
IN TOMATO SAUCE	41,923	346,365
OTHER (MOSTLY IN PEANUT OIL WITH CHILI PEPPERS)	21,381	317,421
TOTAL.	806,501	11,226,817

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE UNIFORM BASIS OF 100 NO. 1 [illegible] (3-3/4 OZ. NET) TO THE CASE. SARDINES WERE CANNED IN 21 PLANTS IN MAINE.

PACK OF PACIFIC SARDINES, 1970

A LAW PASSED BY THE CALIFORNIA LEGISLATURE IN 1967 ESTABLISHED A 2-YEAR MORATORIUM ON THE TAKING OF SARDINES IN CALIFORNIA WATERS, EXCEPTING AN ALLOWABLE 15 PERCENT TOLERANCE FOR SARDINES TAKEN INCIDENTALLY IN MIXED CATCHES OF MACKEREL. IN 1969, THE MORATORIUM ON SARDINE FISHING WAS CONTINUED INDEFINITELY. THERE WAS NO PRODUCTION OF CANNED PACIFIC SARDINES IN 1969-70.

GENERAL REVIEW

PACK OF TUNA, 1970

SPECIES	CALIFORNIA		WASHINGTON AND OREGON		ATLANTIC COAST, HAWAII AND TERRITORIES		TOTAL	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS
ALBACORE:								
SOLID PACK. . .	1,168,497	23,349,884	692,002	16,168,741	2,835,561	56,073,713	4,696,060	95,592,338
CHUNKS.	494,558	9,758,942	243,597	4,565,664	1,135,589	21,738,820	1,873,744	36,063,426
FLAKES AND GRATED	71,353	861,706	70,831	836,056	282,331	3,478,806	424,515	5,176,568
TOTAL	1,734,408	33,970,532	1,006,430	21,570,461	4,253,481	81,291,339	6,994,319	136,832,332
LIGHT MEAT:								
SOLID PACK. . .	1,007,387	16,114,768	(1)	(1)	528,252	8,330,126	1,535,639	24,444,894
CHUNKS.	7,415,552	122,364,825	567,075	8,740,842	4,680,330	78,283,509	12,662,957	209,389,176
FLAKES AND GRATED	410,168	4,711,225	15,400	193,025	444,857	5,002,943	870,425	9,907,193
TOTAL	8,833,107	143,190,818	582,475	8,933,867	5,653,439	91,616,578	15,069,021	243,741,263
GRAND TOTAL .	10,567,515	177,161,350	1,588,905	30,504,328	9,906,920	172,907,917	22,063,340	380,573,595

1/ THE PACK OF LIGHTMEAT SOLID HAS BEEN INCLUDED WITH ALBACORE. NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 NO. 1/2-TUNA CANS TO THE CASE, EACH CONTAINING 7 OZ. NET WEIGHT OF SOLID PACK, 6-1/2 OZ. NET WEIGHT OF CHUNKS, AND 6 OZ. NET WEIGHT OF FLAKES OR GRATED. THE PACK OF DIETETIC TUNA IS INCLUDED IN THESE TOTALS. TUNA WERE CANNED IN: 8 PLANTS IN CALIFORNIA, 7 PLANTS IN OREGON, 5 PLANTS IN WASHINGTON, 4 PLANTS IN PUERTO RICO, 2 PLANTS IN AMERICAN SAMOA, AND 1 PLANT EACH IN MARYLAND AND HAWAII. DATA ON THE PACK OF TUNA SPECIALITIES CAN BE FOUND IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS." THE PACK OF TUNA FOR ANIMAL FOOD IS NOT INCLUDED IN THE ABOVE TABLE.

PACK OF TUNA, BY CAN SIZES, 1970

CAN AND CASE SIZES		QUANTITY	VALUE
		ACTUAL CASES	DOLLARS
4 POUND	(12 CANS) . . .	448,946	14,260,017
1 POUND	(48 CANS) . . .	1,145,791	37,056,748
1/2 POUND	(48 CANS) . . .	15,832,405	269,666,252
1/4 POUND	(48 CANS) . . .	1,939,140	22,164,970
9-1/4 OUNCES	(24 CANS) . . .	3,041,985	36,893,482
OTHER SIZES (CONVERTED TO STANDARD CASES)		31,742	532,126
TOTAL.		22,440,009	380,573,595

PACK OF TUNA, BY AREAS AND STATES, 1970

AREA AND STATE	QUANTITY	VALUE	AREA AND STATE	QUANTITY	VALUE
	STANDARD CASES	DOLLARS		STANDARD CASES	DOLLARS
PACIFIC COAST:			OTHER:		
WASHINGTON.	158,614	2,758,609	MARYLAND, HAWAII, AND AMERICAN SAMOA. . . .	3,540,930	64,650,282
OREGON.	1,430,291	27,745,719	PUERTO RICO.	6,365,990	108,257,635
CALIFORNIA.	10,567,515	177,161,350	TOTAL.	9,906,920	172,907,917
TOTAL.	12,156,420	207,665,678	GRAND TOTAL. . . .	22,063,340	380,573,595

PACK OF TUNALIKE FISH, 1970

SPECIES	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
BONITO:		
SOLID PACK, CHUNKS, AND FLAKES OR GRATED. . . .	139,541	1,450,339

NOTE:--"STANDARD CASES" REPRESENT THE EQUIVALENT OF 48 NO. 1/2-TUNA CANS TO THE CASE, EACH CONTAINING 7 OZ. NET WEIGHT OF SOLID PACK, 6-1/2 OZ. NET WEIGHT OF CHUNKS, 6 OZ. NET WEIGHT OF FLAKES OR GRATED. TUNALIKE FISHES WERE CANNED IN 5 PLANTS IN CALIFORNIA

GENERAL REVIEW

PACK OF ALEWIVES, 1970

STATE AND NUMBER OF PLANTS	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
NORTH CAROLINA (3) AND VIRGINIA (1)	22,538	133,532

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS OF 15 OZ. EACH.

PACK OF MACKEREL, 1970

ITEM	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
JACK AND PACIFIC MACKEREL, NATURAL AND IN TOMATO SAUCE. .	188,609	1,533,[illegible]

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS OF 15 OZ. EACH. MOST OF THE PACK WAS CANNED IN 15 OZ. CANS. MACKEREL WAS CANNED IN 6 PLANTS IN CALIFORNIA.

PACK OF SHAD, 1970

LESS THAN 3 PLANTS CANNED SHAD IN 1970. THE PRODUCTION OF CANNED SHAD HAS BEEN INCLUDED IN THE TABLE "PACK OF MISCELLANEOUS FISHERY PRODUCTS."

PACK OF ANIMAL FOOD FROM FISHERY PRODUCTS, 1970

STATE AND NUMBER OF PLANTS	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
MASSACHUSETTS (3)	2,392,360	21,960,292
NEW YORK (2) AND NEW JERSEY (1)	116,165	837,640
PENNSYLVANIA (2), MARYLAND (1), AND VIRGINIA (2).	327,440	3,150,300
MISSISSIPPI (3) AND LOUISIANA (1)	3,069,569	16,060,200
ILLINOIS (1), KANSAS,(1), NEBRASKA (1), AND WISCONSIN (2).	417,068	3,099,227
CALIFORNIA (11)	3,345,849	40,825,157
WASHINGTON (5).	181,816	1,638,379
OREGON (6).	401,998	3,378,635
HAWAII (1) AND AMERICAN SAMOA (2)	309,892	4,734,454
PUERTO RICO (4)	681,649	9,547,303
TOTAL (49)	11,243,806	105,231,587

NOTE:--EACH STANDARD CASE CONTAINS 10 OR MORE LB. OF FISH. AN ADDITIONAL PACK OF 4,279,615 STANDARD CASES VALUED AT $20,790,648 HAD LESS THAN 10 LB. OF FISH PER STANDARD CASE AND IS NOT INCLUDED IN THE ABOVE PACK. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, EACH CONTAINING 1[illegible] Z.

PACK OF FISH ROE AND CAVIAR, 1970

PRODUCT AND NUMBER OF PLANTS	QUANTITY	VALUE	STATE OF PRODUCTION AND NUMBER OF PLANTS
	STANDARD CASES	DOLLARS	
ALEWIFE ROE (5)	7,811	113,789	VIRGINIA (2), AND NORTH CAROLINA (3)
SHAD ROE (4).	523	70,097	WASHINGTON (1), OREGON (2), AND CALIFORNIA (1)
SALMON CAVIAR (4)	2,994	535,205	NEW YORK (4)
WHITEFISH CAVIAR (4).	5,315	372,371	NEW YORK (3) AND WISCONSIN (1)
GROUNDFISH ROE (1), STURGEON ROE (3), AND LUMPFISH CAVIAR (3) . .	6,814	3,004,536	NEW YORK (3) AND MASSACHUSETTS (1)
TOTAL EDIBLE ROE AND CAVIAR (15) 1/.	23,457	4,095,998	
SALMON EGGS FOR BAIT (11)	21,040	3,903,683	WASHINGTON (10) AND MICHIGAN (1)
GRAND TOTAL (26)	44,497	7,999,681	

1/ EXCLUSIVE OF DUPLICATION.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, CONTAINING 16 OZ.

PACK OF FISH ROE AND CAVIAR, BY STATES, 1970

STATE AND NUMBER OF PLANTS	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
NEW YORK (4).	13,452	3,833,860
VIRGINIA (2) AND NORTH CAROLINA (3)	7,811	113,789
WASHINGTON (11) AND OREGON (2).	17,167	3,488,408
WISCONSIN (1), CALIFORNIA (1), MASSACHUSETTS (1), AND MICHIGAN (1)	6,067	563,624
TOTAL (26).	44,497	7,999,681

NOTE:--"STANDARD CASES REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, EACH CONTAINING 16 OZ.

PACK OF CRAB MEAT, 1970

STATE AND NUMBER OF PLANTS	SPECIES	QUANTITY	VALUE
		STANDARD CASES	DOLLARS
ATLANTIC AND GULF STATES:			
MAINE (1), NORTH CAROLINA (1), SOUTH CAROLINA (1), AND MISSISSIPPI (2)	BLUE 1/	104,284	3,406,936
PACIFIC COAST STATES:			
WASHINGTON (5).	DUNGENESS	45,442	1,927,720
OREGON (2) AND CALIFORNIA (1)	DUNGENESS	7,888	323,244
ALASKA (12)	DUNGENESS	5,412	209,489
ALASKA (9).	KING	55,857	3,017,099
ALASKA (6).	SNOW	42,527	1,604,292
TOTAL, EXCLUSIVE OF DUPLICATION (27).		157,126	7,081,844
GRAND TOTAL (32).		261,410	10,488,780

1/ INCLUDES A SMALL PACK OF ROCK CRABS IN MAINE.
NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS TO THE CASE, EACH CONTAINING 6-1/2 OZ.

PACK OF CLAMS AND CLAM PRODUCTS, 1970

SPECIES	WHOLE AND MINCED		CHOWDER AND JUICE		TOTAL	
	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS	STANDARD CASES	DOLLARS
CLAMS:						
HARD, SOFT, AND SURF. . .	578,874	10,176,169	1,892,974	15,418,850	2,471,848	[illegible]
RAZOR	1,365	66,219	-	-	1,365	[illegible]
TOTAL	[illegible],239	10,242,388	[illegible]	[illegible]	[illegible]	[illegible]

NOTE:-- CLAMS WERE CANNED IN 7 PLANTS IN NEW JERSEY, 5 PLANTS IN WASHINGTON, 4 PLANTS IN MARYLAND, 3 PLANTS IN MAINE, 2 PLANTS IN OREGON AND MASSACHUSETTS, AND 1 PLANT EACH IN DELAWARE, CONNECTICUT, PENNSYLVANIA, NEW YORK, ALASKA, AND CALIFORNIA. "STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 NO.1 PICNIC CANS, EACH CAN OF WHOLE OR MINCED CLAMS CONTAINING 5 OZ. OF MEATS DRAINED WEIGHT, AND EACH CAN OF CHOWDER, JUICE BROTH, NECTAR, 10 OZ. NET CONTENT. THE PACK OF CLAMS IN THE SHELL IS NOT INCLUDED.

CLAM PRODUCTION, BY TYPE OF PACK, 1970

PRODUCTION AND NUMBER OF PLANTS	QUANTITY		VALUE
	STANDARD CASES	POUNDS	DOLLARS
CLAMS:			
WHOLE (10).	7,498	112,470	288,894
MINCED (16)	572,741	8,591,115	9,953,494
CHOWDER(13)	1,664,524	49,935,720	14,286,957
JUICE (INCLUDES BOUILLON, BROTH, AND NECTAR (9).	228,450	6,853,500	1,131,893
TOTAL, EXCLUSIVE OF DUPLICATION (29). . . .	2,473,213	65,492,805	25,661,238

PACK OF OYSTERS, 1970

STATE AND NUMBER OF PLANTS	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
SOUTH CAROLINA (2), MISSISSIPPI (4), LOUISIANA (3), WASHINGTON (2), OREGON (1).	271,968	2,101,517

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 24 CANS TO THE CASE, EACH CONTAINING 4-2/3 OZ. OF OYSTER MEATS.

GENERAL REVIEW

PACK OF SHRIMP, 1970

STATE AND NUMBER OF PLANTS	QUANTITY	VALUE
	STANDARD CASES	DOLLARS
GULF STATES:		
TEXAS (2), LOUISIANA (13), AND MISSISSIPPI (9).	2,542,348	26,730,147
ATLANTIC AND PACIFIC STATES:		
WASHINGTON (1), MAINE (1), AND OREGON (3) . . .	77,589	651,002
ALASKA (7).	1,102,316	9,895,633
TOTAL (12)	1,179,905	10,546,635
GRAND TOTAL (36)	3,722,253	37,276,782

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS TO THE CASE, EACH CONTAINING 4-1/2 OZ. OF SHRIMP MEATS.

PACK OF MISCELLANEOUS FISHERY PRODUCTS, 1970

PRODUCT	QUANTITY	VALUE	LOCATION AND NUMBER OF PLANTS
	STANDARD CASES	DOLLARS	
FISH:			
ANCHOVY PASTE	1,873	134,727	NEW YORK (2), MARYLAND (1), AND MICHIGAN (1)
GEFILTEFISH	284,839	5,680,355	NEW YORK (1) AND NEW JERSEY (3)
HERRING SPECIALTIES (SPREADS AND TIDBITS)	22,486	386,932	MAINE (9)
SALMON, SMOKED.	2,534	234,462	WASHINGTON (14), OREGON (7), CALIFORNIA (1), AND ALASKA (5)
STURGEON, SMOKED.	443	35,715	WASHINGTON (8) AND OREGON (4)
TUNA SPECIALTIES:			
SPREADS, WITH NOODLES, CREAMED, AND WITH CHILI	28,599	520,878	MAINE (1), PENNSYLVANIA (2), AND CALIFORNIA (2)
SMOKED.	1,366	48,536	WASHINGTON (2), OREGON (2), AND CALIFORNIA (1)
OTHER (COD, HADDOCK, KING MACKEREL, ATLANTIC MACKEREL, MARLIN, POLLOCK, SALMON, SHAD, WAHOO, WHITEFISH, AND YELLOWTAIL. ALL ARE NATURAL PACK OR IN SAUCES OR ARE SMOKED, CHOWDERS, BITES, FLAKES, ETC.)	102,046	1,588,665	MAINE (2), MASSACHUSETTS (1), CONNECTICUT (1), NEW JERSEY (4), FLORIDA (1), CALIFORNIA (2), OREGON (1), WASHINGTON (1), AND AMERICAN SAMOA (2)
TOTAL FISH.	444,186	8,630,270	
SHELLFISH:			
CRAB SPECIALTIES (DEVILED, DIPS, SPREADS, SOUPS, GUMBO, BISQUE, NEWBURG, AND SMOKED).	26,206	660,676	MAINE (1), NEW JERSEY (1), MARYLAND (1), SOUTH CAROLINA (1), LOUISIANA (1), AND WASHINGTON (3)
LOBSTER SPECIALTIES (DEVILED, DIPS, NEWBURG, SPREADS, THERMIDOR, PASTE, CHOWDERS, MEAT, KNUCKLES, SOUPS, BISQUE, AND IN SAUCES).	14,916	410,704	MAINE (1), CONNECTICUT (1), NEW JERSEY (1), DELAWARE (1), MARYLAND (1), AND MICHIGAN (1)
SHRIMP SPECIALTIES (CREOLE, DIPS, GUMBO, NEWBURG, PASTE, CHOWDER, SOUP, BISQUE, STEWS IN SAUCES, AND PICKLED)	17,855	358,971	MAINE (1), NEW JERSEY (2), MARYLAND (1), LOUISIANA (3), MICHIGAN (1), AND OREGON (1)
CLAM SPECIALTIES (A LA KING, FRITTERS, DIPS, SPREADS, CRISPS, IN SHELL, SOUPS, BISQUE, STEWS, IN SAUCES, AND SMOKED).	136,316	2,496,843	MAINE (2), CONNECTICUT (1), NEW JERSEY (2), DELAWARE (1), MARYLAND (2), WASHINGTON (5), AND OREGON (1)
OYSTER SPECIALTIES:			
SMOKED.	692	58,194	WASHINGTON (5)
STEWS	265,867	5,089,758	NEW JERSEY (2), SOUTH CAROLINA (1), FLORIDA (1), LOUISIANA (1), WASHINGTON (3), AND OREGON (1)
BISQUE AND SOUPS.	3,630	33,053	NEW JERSEY (1), LOUISIANA (1), AND WASHINGTON (1)
SQUID	197,352	992,907	NEW YORK (1), NEW JERSEY (1), AND CALIFORNIA (6)
TURTLE MEAT, SOUPS, AND CHOWDERS. . .	7,484	213,899	NEW JERSEY (1), FLORIDA (1), AND LOUISIANA (2)
OTHER SPECIALTIES (CRAWFISH, ABALONE, SPINY LOBSTER, MUSSEL, CONCH, AND SCALLOPS, PACKED NATURAL OR IN SAUCES, ETC.).	13,378	463,352	NEW YORK (1), NEW JERSEY (2), MARYLAND (1), FLORIDA (1), LOUISIANA (3), AND CALIFORNIA (1)
TOTAL SHELLFISH	683,696	10,778,357	
GRAND TOTAL	1,127,882	19,408,627	

NOTE:--"STANDARD CASES" REPRESENT THE VARIOUS SIZE CASES CONVERTED TO THE EQUIVALENT OF 48 CANS, EACH CONTAINING 16 OZ. NET WEIGHT.

GENERAL REVIEW

INDUSTRIAL FISHERY PRODUCTS, 1970

The production of industrial fishery products by 127 plants in the United States, American Samoa, and Puerto Rico was valued at $99.5 million--an increase of $16.5 million compared with 1969.

Marine animal scrap and meal. The production of 269,197 tons of marine animal scrap and meal was 16,533 tons (7 percent) greater than in 1969. A sharp increase in menhaden meal and scrap--from 159,493 tons in 1969 to 188,550 tons in 1970--was the principal reason for the gain. It was the largest production of menhaden meal since 1962. Compared with 1969, increases also occurred in the anchovy meal production of 16,200 tons (up 42 percent) and the crab meal production of 11,481 tons (up 48 percent). These gains, however, were somewhat offset by a marked decline in production of unclassified species of fish and shellfish: the 1970 yield of 15,438 tons was less than one-half the 1969 production.

Marine animal oil. The production of marine animal oil was 206.8 million pounds--22 percent more than in 1969. Menhaden oil production of 186.3 million pounds increased 37.1 million and accounted largely for the gain. Compared with 1969, production of anchovy and sea herring oil increased substantially, but production of tuna and mackerel oil and unclassified fish oils declined.

Fish solubles. The production of fish solubles was 94,968 tons--16 percent more than in 1969. Menhaden accounted for 76 percent of the production.

Other industrial products. Products from oyster shells were worth $3.4 million--compared with $3.3 million in 1969.

Other industrial items produced included agar agar, animal feeds, fish feed pellets, Irish moss extracts, kelp products, leather products, liquid fertilizer, colored chips, pearl essence, crab and clam shells, and mussel shell lime valued at $26.6 million. These products were valued at $25.6 million in 1969.

Data on the production of industrial fishery products during 1970 have been published previously in Current Fishery Statistics No. 5561.

GENERAL REVIEW

SUMMARY OF PRODUCTION, BY PRODUCTS, 1970

PRODUCT	PLANTS	UNIT OF QUANTITY	QUANTITY	DOLLARS
	NUMBER			
MARINE ANIMAL SCRAP AND MEAL	91	TONS	269,197	46,353,267
MARINE ANIMAL OILS, BODY OIL	48	1,000 LB	206,083	18,184,724
FISH SOLUBLES	29	TONS	94,968	4,946,385
OYSTER SHELL GRIT AND LIME ("LIVE AND REEF SHELLS")	6	TONS	204,037	3,409,340
MISCELLANEOUS INDUSTRIAL PRODUCTS	26	-	-	26,646,033
TOTAL	1/127	-	-	99,539,749

1/ EXCLUSIVE OF DUPLICATION.

VALUE OF PRODUCTION, BY STATES, 1970

STATE	DOLLARS
MAINE	11,540,723
MASSACHUSETTS AND RHODE ISLAND	2,218,200
NEW JERSEY AND PENNSYLVANIA	1,605,276
MARYLAND	1,140,260
VIRGINIA	13,023,577
NORTH CAROLINA	[illegible]
GEORGIA AND ALABAMA	1,533,550
FLORIDA	592,185
MISSISSIPPI	6,652,042
LOUISIANA	30,099,215
TEXAS, IOWA, AND WISCONSIN	2,858,472
WASHINGTON	1,532,499
OREGON	955,068
CALIFORNIA	21,353,656
ALASKA	[illegible]
AMERICAN SAMOA AND PUERTO RICO	1,326,542
TOTAL	99,539,749

PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1970

AREA AND STATE	PLANTS	AREA AND STATE	PLANTS
	NUMBER		NUMBER
NEW ENGLAND:		SOUTH ATLANTIC AND GULF (CONTINUED):	
MAINE	10	MISSISSIPPI	5
MASSACHUSETTS	3	LOUISIANA	30
RHODE ISLAND	1	TEXAS	2
TOTAL	14	TOTAL	58
MIDDLE ATLANTIC:		GREAT LAKES, WISCONSIN	1
NEW JERSEY	4	MISSISSIPPI RIVER, IOWA	2
PENNSYLVANIA	1		
TOTAL	5	PACIFIC COAST:	
CHESAPEAKE:		ALASKA	1
MARYLAND	4	WASHINGTON	6
VIRGINIA	8	OREGON	4
		CALIFORNIA	19
TOTAL	12	TOTAL	30
SOUTH ATLANTIC AND GULF:			
NORTH CAROLINA	14	AMERICAN SAMOA	2
GEORGIA	1	PUERTO RICO	3
FLORIDA	4		
ALABAMA	2		
(CONTINUED)		GRAND TOTAL	127

GENERAL REVIEW

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1970

[illegible]	ATLANTIC AND GULF COASTS 1/	PACIFIC COAST 2/	TOTAL
		NUMBER	
SCRAP AND MEAL, DRIED:			
ALEWIFE	3	-	[illegible]
ANCHOVY	-	[illegible]	[illegible]
CRAB	11	[illegible]	14
GROUNDFISH	1	-	1
HERRING, SEA	2	[illegible]	4
MENHADEN	26	-	26
SHRIMP	22	[illegible]	23
TUNA AND MACKEREL	1	12	13
WHALE	-	1	[illegible]
THREAD HERRING	3	-	3
UNCLASSIFIED	9	6	15
OIL:			
BODY:			
ALEWIFE	3	-	3
ANCHOVY	-	6	6
HERRING, SEA	2	1	3
MENHADEN	25	-	25
SALMON	-	2	2
THREAD HERRING	5	-	5
TUNA AND MACKEREL	-	6	6
WHALE:			
SPERM	-	1	1
OTHER	-	1	1
UNCLASSIFIED	3	4	7
LIVER OILS	1	-	1
MUSSEL SHELL PRODUCTS (FRESH-WATER):			
LIME	1	-	1
COLORED CHIPS AND DUST	1	-	1
OYSTER SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED	4	1	5
SHELL LIME (BURNED AND UNBURNED)	3	1	4
MARINE PEARL SHELL BUTTONS	3	-	3
AGAR-AGAR	-	1	1
FISH SOLUBLES	24	5	29
IRISH MOSS EXTRACTS	[illegible]	-	[illegible]
KELP PRODUCTS	-	[illegible]	3
LIQUID FERTILIZER	-	[illegible]	2
PEARL ESSENCE	[illegible]	-	[illegible]
CRAB SHELLS (FOR DEVILED CRAB MEAT)	[illegible]	-	[illegible]
ANIMAL FEEDS	-	4	4
FISH FEED PELLETS	-	2	2
LEATHER PRODUCTS	1	-	1
CLAM SHELL FOR CLAM MEATS	1	-	1
TOTAL, EXCLUSIVE OF DUPLICATION	92	35	127

1/ INCLUDES FIRMS IN THE MISSISSIPPI RIVER AND GREAT LAKES AREA.

2/ INCLUDES AMERICAN SAMOA AND PUERTO RICO.

PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1970

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND TERRITORIES		TOTAL	
	TONS	DOLLARS	TONS	DOLLARS	TONS	DOLLARS
DRIED SCRAP AND MEAL:						
ALEWIFE.	1/ 2,861	1/ 464,190	-	-	2,861	464,190
ANCHOVY.	-	-	16,200	2,786,993	16,200	2,786,993
CRAB	10,828	554,378	653	33,355	11,481	587,733
HERRING, SEA	2/ 6,415	2/1,174,696	-	-	6,415	1,174,696
MENHADEN	188,550	34,657,788	-	-	188,550	34,657,788
SHRIMP	2/ 699	2/ 34,470	-	-	699	34,470
THREAD HERRING	548	99,049	-	-	548	99,049
TUNA AND MACKEREL. . . .	-	-	3/26,674	3/3,753,067	26,674	3,753,067
WHALE.	-	-	331	44,212	331	44,212
UNCLASSIFIED	1/13,200	1/2,412,537	2,238	338,532	15,438	2,751,069
TOTAL	223,101	39,397,108	46,096	6,956,159	269,197	46,353,267

1/ INCLUDES QUANTITIES PRODUCED IN THE GREAT LAKES. 2/ INCLUDES QUANTITIES PRODUCED ON THE PACIFIC COAST.

3/ INCLUDES QUANTITIES PRODUCED ON THE ATLANTIC COAST.

PRODUCTION OF MARINE ANIMAL OIL, 1970

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND PUERTO RICO		TOTAL	
	THOUSAND POUNDS	DOLLARS	THOUSAND POUNDS	DOLLARS	THOUSAND POUNDS	DOLLARS
BODY OIL:						
ALEWIFE.	1/ 821	1/ 61,904	-	-	821	61,904
ANCHOVY.	-	-	6,165	439,333	6,165	439,333
HERRING, SEA	2/ 5,437	2/ 328,407	-	-	5,437	328,407
MENHADEN	186,283	16,833,277	-	-	186,283	16,833,277
TUNA AND MACKEREL. . . .	-		3,534	168,055	3,534	168,055
WHALE:						
SPERM.	-	-	602	39,888	602	39,888
OTHER.	-	-	78	6,131	78	6,131
UNCLASSIFIED	3/ 2,460	3/ 249,958	703	57,771	3,163	307,729
TOTAL	195,001	17,473,546	11,082	711,178	206,083	18,184,724

1/ INCLUDES QUANTITIES PRODUCED IN THE GREAT LAKES. 2/ INCLUDES QUANTITIES PRODUCED ON THE PACIFIC COAST.

3/ INCLUDES LIVER OILS.

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

PRODUCTION OF FISH SOLUBLES, 1970

PRODUCT, STATE, AND NUMBER OF PLANTS	TONS	DOLLARS
FISH SOLUBLES:		
MASSACHUSETTS (1), RHODE ISLAND (1), AND NEW JERSEY (1), VIRGINIA (2), AND FLORIDA (1) .	26,423	1,375,071
NORTH CAROLINA (5).	4,810	227,433
MISSISSIPPI (3)	10,716	445,428
LOUISIANA (9) AND TEXAS (1).	33,557	1,717,806
CALIFORNIA (4) AND OREGON (1).	19,462	1,180,647
TOTAL (29)	94,968	4,946,385

NOTE:--INCLUDES MENHADEN SOLUBLES.

PRODUCTION OF MENHADEN PRODUCTS, 1970

STATE AND NUMBER OF PLANTS	DRIED SCRAP AND MEAL		OIL		SOLUBLES		TOTAL
	TONS	DOLLARS	POUNDS	DOLLARS	TONS	DOLLARS	DOLLARS
RHODE ISLAND (1), NEW JERSEY (1), VIRGINIA (3), AND FLORIDA (1)	51,011	9,397,882	42,352,169	3,762,792	22,808	1,183,118	14,343,792
NORTH CAROLINA (8)	11,378	2,079,274	3,897,065	314,237	4,810	227,433	2,620,944
MISSISSIPPI (3)	21,195	3,834,380	24,944,902	2,234,734	10,716	445,428	6,514,542
LOUISIANA (9) AND TEXAS (1)	104,966	19,346,252	115,089,120	10,521,514	33,557	1,717,806	31,585,572
TOTAL (27)	188,550	34,657,788	186,283,256	16,833,277	[illegible]	3,573,785	55,064,850

NOTE:-- MAY INCLUDE A SMALL QUANTITY MADE FROM OTHER SPECIES.

PRODUCTION OF OYSTER SHELL PRODUCTS, 1970

("LIVE AND REEF SHELLS")

STATE AND NUMBER OF PLANTS	POULTRY GRIT		LIME, BURNED AND UNBURNED		TOTAL	
	TONS	DOLLARS	TONS	DOLLARS	TONS	DOLLARS
PENNSYLVANIA (1), MARYLAND (1), VIRGINIA (1), ALABAMA (1), TEXAS (1), AND OREGON (1)	166,679	3,076,664	37,358	332,676	204,037	3,409,340

PRODUCTION OF MARINE PEARL SHELL BUTTONS, 1970

ONLY TWO PLANTS PRODUCED PEARL SHELL BUTTONS IN 1970. PRODUCTION OF MARINE SHELL BUTTONS HAS BEEN INCLUDED IN THE TABLE "PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS."

PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1970

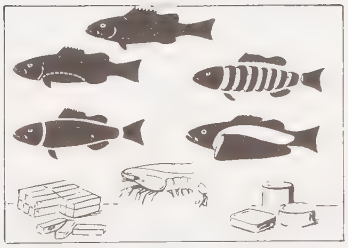
PRODUCT	STATE AND NUMBER OF PLANTS	DOLLARS
AGAR-AGAR	CALIFORNIA (1)	26,646,033
ANIMAL FEEDS AND FISH FEED PELLETS	CALIFORNIA (4), OREGON (1), AND WASHINGTON (1)	
IRISH MOSS EXTRACTS	MAINE (2)	
KELP PRODUCTS	CALIFORNIA (3)	
LEATHER PRODUCTS	NEW JERSEY (1)	
LIQUID FERTILIZER	CALIFORNIA (1) AND OREGON (1)	
COLORED CHIPS	IOWA (1)	
PEARL ESSENCE	MAINE (6)	
CRAB AND CLAM SHELLS (PROCESSED FOR FOOD SERVING)	ALABAMA (1), MISSISSIPPI (2), AND NORTH CAROLINA (1)	
MUSSEL SHELL LIME	IOWA (1)	
MARINE SHELL BUTTONS	NEW JERSEY (2)	

GENERAL REVIEW

PACKAGED FISHERY PRODUCTS, 1970

The production of fresh and frozen packaged fish fillets and steaks in the United States, excluding Alaska and Hawaii, was 133.5 million pounds worth $74.8 million--a decline of 4.1 million pounds but an increase of $5.4 million compared with 1969. Flounder fillets (46.7 million pounds), Atlantic ocean perch fillets (16.0 million), and cod fillets and steaks (13.6 million pounds) were the leading items. They accounted for 57 percent of the volume and 55 percent of the value. Haddock fillets, rockfish fillets, and halibut fillets and steaks were among the other important leading items. The New England area continued to lead all other areas in the production of packaged fish with 57 percent of the volume and 54 percent of the value.

Data on the production of packaged fish during 1970 have been published previously in Current Fishery Statistics No. 5562.



GENERAL REVIEW

SUMMARY OF PRODUCTION OF PACKAGED FISH, 1970

ITEM	FILLETS		STEAKS		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FRESH	78,632,956	47,472,733	1,369,993	1,069,275	80,002,949	48,542,008
FROZEN	41,891,273	17,105,277	11,613,395	9,182,631	53,504,668	26,287,908
TOTAL	120,524,229	64,578,010	12,983,388	10,251,906	133,507,617	74,829,916

PRODUCTION OF FRESH AND FROZEN PACKAGED FISH, BY SECTIONS, 1970

SPECIES	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE, SOUTH ATLANTIC, AND GULF	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	10,209,548	5,380,940	2,532,665	1,754,444	1	-
CUSK	500,271	207,546	-	-	-	-
FLOUNDERS	28,857,243	18,772,732	3,130,205	2,774,869	431,230	191,985
GROUPERS	-	-	-	-	267,519	197,038
HADDOCK	8,614,493	6,809,453	252,600	115,930	-	-
HAKE	165,562	54,446	10,600	5,080	-	-
HALIBUT	1,176,468	869,649	-	-	-	-
KING MACKEREL	-	-	-	-	278,762	143,277
OCEAN PERCH, ATLANTIC	16,008,084	4,922,216	-	-	-	-
POLLOCK	3,723,142	1,257,343	-	-	-	-
SALMON	94,745	114,942	-	-	-	-
SEA TROUT	-	-	-	-	8,529	6,617
SHAD	25,601	60,418	-	-	-	-
SNAPPER, RED	-	-	-	-	316,846	520,732
SPANISH MACKEREL	-	-	-	-	2,368,556	891,436
SWORDFISH	1,863,753	1,325,758	-	-	-	-
WHITING	782,446	266,998	-	-	-	-
WOLFFISH	138,464	54,318	-	-	-	-
UNCLASSIFIED	4,160,000	513,469	1,000	550	785,109	383,432
TOTAL	76,319,820	40,610,228	5,927,070	4,650,873	4,456,552	2,334,517

SPECIES	GREAT LAKES AND MISSISSIPPI RIVER		PACIFIC COAST	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	139,468	55,069	-	-
CARP	2,096,570	692,678	-	-
COD	-	-	876,562	309,522
FLOUNDERS	-	-	14,238,527	6,972,421
HALIBUT	-	-	7,199,401	5,790,705
HERRING, LAKE	8,300	4,695	-	-
LAKE TROUT	161,550	180,385	-	-
LINGCOD	-	-	1,256,425	442,872
OCEAN PERCH, PACIFIC	-	-	3,241,990	1,154,430
PERCH, PACIFIC	-	-	430,915	169,715
PIKE OR PICKEREL	43,250	21,675	-	-
ROCKFISHES	-	-	8,660,799	3,025,252
SABLEFISH	-	-	193,950	69,313
SALMON	58,900	60,165	2,576,960	2,630,707
SAUGER	155,300	232,275	-	-
SEA BASS	-	-	328,165	193,957
SWORDFISH	-	-	893,158	745,961
WHITE BASS	25,000	18,150	-	-
WHITEFISH	969,800	1,086,345	-	-
YELLOW PERCH	2,025,400	1,724,460	-	-
YELLOW PIKE	665,400	899,781	-	-
UNCLASSIFIED	454,385	689,165	104,000	64,600
TOTAL	6,803,323	5,664,843	40,000,852	21,569,455

PRODUCTION OF PACKAGED FISH, BY METHOD OF PREPARATION, 1970

SPECIES	FILLETS			
	FRESH		FROZEN	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	139,468	55,069	-	-
CARP	2,096,570	692,678	-	-
COD	11,072,487	6,383,714	2,180,582	941,814
CUSK	458,511	190,882	41,760	16,664
FLOUNDERS	38,940,185	24,568,445	7,717,020	4,143,562
GROUPERS	61,770	53,216	127,445	86,117
HADDOCK	8,011,951	6,409,133	855,142	516,250
HAKE	127,228	45,089	48,934	14,437
HALIBUT	110,367	89,909	622,711	547,495
HERRING, LAKE	8,300	4,695	-	-
KING MACKEREL	-	-	278,762	143,277
LAKE TROUT	134,650	151,060	26,900	29,325
LINGCOD	867,441	294,565	388,984	148,307
OCEAN PERCH:				
ATLANTIC	561,606	197,806	15,446,478	4,724,410
PACIFIC	2,100,818	699,512	1,141,172	454,918
PERCH, PACIFIC	430,915	169,715	-	-
PIKE OR PICKEREL	17,600	11,720	25,650	9,955
POLLOCK	2,459,248	910,339	1,263,894	347,004
ROCKFISHES	6,423,513	2,180,885	2,237,286	844,367
SABLEFISH	193,950	69,313	-	-
SALMON	-	-	793,314	971,975
SAUGER	131,000	195,900	24,300	36,375
SEA BASS	-	-	328,165	193,957
SEA TROUT	8,529	6,617	-	-
SHAD	25,601	60,418	-	-
SNAPPER, RED	39,238	48,509	277,609	472,223
SPANISH MACKEREL	114,650	46,475	2,253,906	844,961
WHITE BASS	25,000	18,150	-	-
WHITEFISH	914,800	1,029,310	55,000	57,035
WHITING	-	-	782,446	266,998
WOLFFISH	-	-	138,464	54,318
YELLOW PERCH	1,770,800	1,501,015	254,600	223,445
YELLOW PIKE	471,800	657,091	193,600	242,690
UNCLASSIFIED	914,960	731,503	4,387,149	773,398
TOTAL	78,632,956	47,472,733	41,891,273	17,105,277

SPECIES	STEAKS, FRESH AND FROZEN		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	139,468	55,069
CARP	-	-	2,096,570	692,678
COD	365,706	119,378	13,618,775	7,444,906
CUSK	-	-	500,271	207,546
FLOUNDERS	-	-	46,657,205	28,712,007
GROUPERS	78,304	57,705	267,519	197,038
HADDOCK	-	-	8,867,093	6,925,383
HAKE	-	-	176,162	59,526
HALIBUT	7,642,791	6,022,950	8,375,869	6,660,354
HERRING, LAKE	-	-	8,300	4,695
KING MACKEREL	-	-	278,762	143,277
LAKE TROUT	-	-	161,550	180,385
LINGCOD	-	-	1,256,425	442,872
OCEAN PERCH:				
ATLANTIC	-	-	16,008,084	4,922,216
PACIFIC	-	-	3,241,990	1,154,430
PERCH, PACIFIC	-	-	430,915	169,715
PIKE OR PICKEREL	-	-	43,250	21,675
POLLOCK	-	-	3,723,142	1,257,343
ROCKFISHES	-	-	8,660,799	3,025,252
SABLEFISH	-	-	193,950	69,313
SALMON	1,937,291	1,833,839	2,730,605	2,805,814
SAUGER	-	-	155,300	232,275
SEA BASS	-	-	328,165	193,957
SEA TROUT	-	-	8,529	6,617
SHAD	-	-	25,601	60,418
SNAPPER, RED	-	-	316,847	520,732
SPANISH MACKEREL	-	-	2,368,556	891,436
SWORDFISH	2,756,911	2,071,719	2,756,911	2,071,719
WHITE BASS	-	-	25,000	18,150
WHITEFISH	-	-	969,800	1,086,345
WHITING	-	-	782,446	266,998
WOLFFISH	-	-	138,464	54,318
YELLOW PERCH	-	-	2,025,400	1,724,460
YELLOW PIKE	-	-	665,400	899,781
UNCLASSIFIED	202,385	146,315	5,504,494	1,651,216
TOTAL	12,983,388	10,251,906	133,507,617	74,829,916

PRODUCTION OF FISH STICKS, 1970

MONTH	COOKED	RAW	TOTAL
		THOUSAND POUNDS	
JANUARY	10,144	316	10,460
FEBRUARY	11,553	280	11,833
MARCH	11,822	287	12,109
APRIL	8,540	410	8,950
MAY	8,112	407	8,519
JUNE	8,945	371	9,316
JULY	6,595	438	7,033
AUGUST	7,221	390	7,611
SEPTEMBER	9,582	497	10,079
OCTOBER	11,835	526	12,361
NOVEMBER	8,353	429	8,782
DECEMBER	8,281	590	8,871
TOTAL	110,983	4,941	115,924
		THOUSAND DOLLARS	
TOTAL VALUE-YEAR	55,506	2,216	57,722

NOTE:--A FISH STICK, GENERALLY CUT FROM A BLOCK OF FILLETS, IS AN ELONGATED PIECE OF BREADED FISH FLESH WEIGHING NOT LESS THAN 3/4 OF AN OUNCE AND NOT MORE THAN 1-1/2 OUNCES WITH THE LARGEST DIMENSION AT LEAST THREE TIMES THAT OF THE NEXT LARGEST DIMENSION.

PRODUCTION OF FISH PORTIONS, 1970

MONTH	BREADED			UNBREADED	TOTAL
	COOKED	RAW	TOTAL		
			THOUSAND POUNDS		
JANUARY	7,156	13,007	20,163	545	20,708
FEBRUARY	8,063	11,395	19,458	446	19,904
MARCH	8,021	12,149	20,170	614	20,784
APRIL	7,306	14,420	21,726	700	22,426
MAY	5,044	11,628	16,672	437	17,109
JUNE	3,308	12,733	16,041	864	16,905
JULY	3,014	10,101	13,115	573	13,688
AUGUST	5,266	12,039	17,305	1,001	18,306
SEPTEMBER	8,560	11,679	20,239	916	21,155
OCTOBER	9,643	14,243	23,886	961	24,847
NOVEMBER	7,524	11,379	18,903	1,388	20,291
DECEMBER	6,763	9,842	16,605	1,519	18,124
TOTAL	79,668	144,615	224,283	9,964	234,247
			THOUSAND DOLLARS		
TOTAL VALUE-YEAR	35,296	58,166	93,462	4,468	97,930

NOTE:--A FISH PORTION, GENERALLY CUT FROM A BLOCK OF FILLETS, IS A PIECE OF FISH FLESH GENERALLY OF UNIFORM SIZE WITH A THICKNESS OF 3/8 OF AN INCH OR MORE, AND DOES NOT CONFORM TO THE DEFINITION OF A FISH STICK.

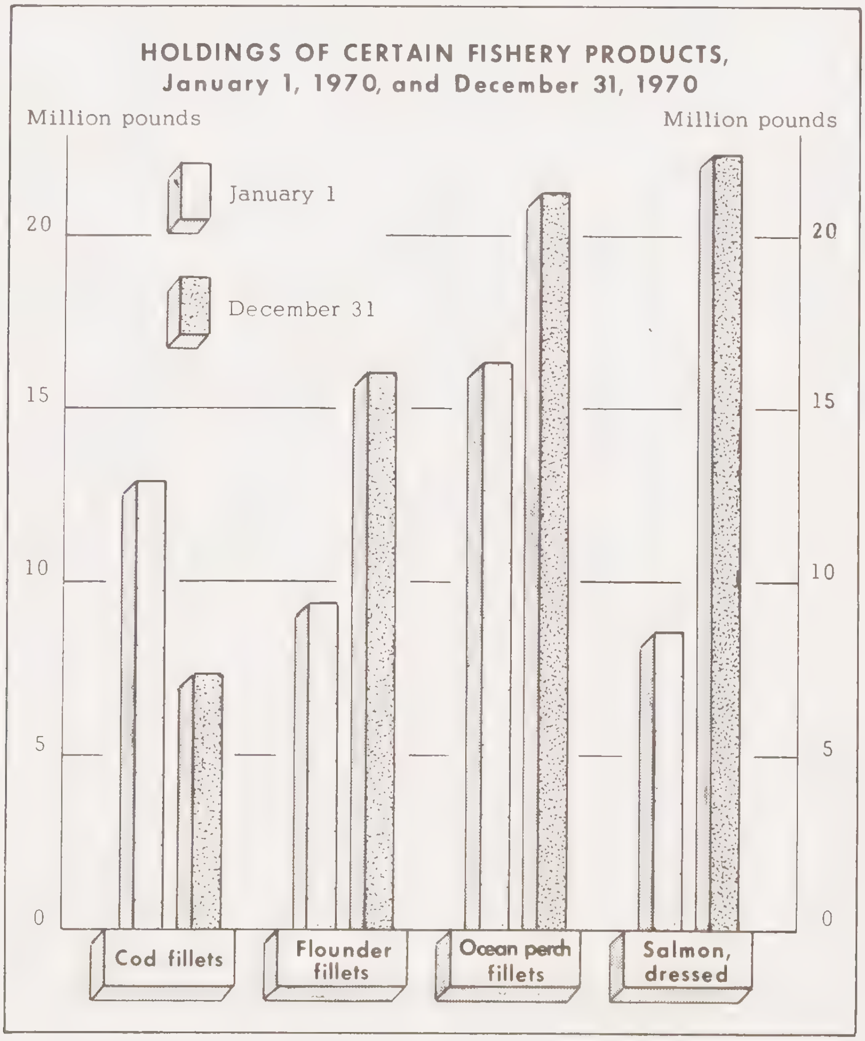
GENERAL REVIEW

FROZEN FISHERY TRADE, 1970

The 1970 production of frozen fish and shellfish by firms reporting to NMFS was 388.3 million pounds. Leading products frozen were shrimp (137.2 million pounds); bait and animal food (64.8); fillets and steaks consisting principally of ocean perch, haddock, flounder, and cod (25.4); salmon (23.0); halibut (19.3); and whiting, headed and gutted (15.3 million pounds). An estimated 583.9 million pounds of fish and shellfish (live weight) were required to produce the 388.3 million pounds of frozen fishery items. Not included were freezings by cold storage plants not reporting to NMFS and a considerable volume of frozen fillets and steaks produced by firms operating plate freezers at the end of fillet production lines.

New England led all other areas in freezings with 117.6 million pounds (30 percent of the total); followed by South Central with 113.7 million (29 percent); South Atlantic, 59.1 million (15 percent); Pacific, 56.7 million (15 percent); and Alaska, 37.0 million (10 percent). The Middle Atlantic, North Central East, and North Central West accounted for the remainder.

Information on the freezings and holdings of fishery products for 1970 by firms supplying monthly data on their operations and a list of these firms were published previously in Current Fishery Statistics No. 5525. Data on freezings and holdings were also published in preliminary and final monthly reports, Frozen Fishery Products--also in the Current Fishery Statistics Series.



GENERAL REVIEW

SUMMARY OF FREEZINGS, BY MONTHS, 1970

SPECIES	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
FISH	- - - - - - - - - - - -	- - - -	THOUSAND	POUNDS	- - - -	- - - -
SALT-WATER:						
BLOCKS	12	14	441	333	565	395
FILLETS AND STEAKS:						
COD	85	177	232	133	67	115
FLOUNDER	269	77	83	117	156	327
HADDOCK	162	150	245	227	282	199
HALIBUT	-	-	-	4	235	273
OCEAN PERCH	855	934	1,154	1,322	1,472	1,415
POLLOCK	54	13	-	28	21	21
SALMON	-	-	-	-	56	-
WHITING	-	-	-	-	32	66
UNCLASSIFIED	120	126	7	49	149	338
TOTAL FILLETS AND STEAKS	1,545	1,477	1,721	1,880	2,470	2,754
TOTAL BLOCKS, FILLETS, AND STEAKS	1,557	1,491	2,162	2,213	3,035	3,149
ROUND, DRESSED, ETC.:						
HALIBUT	-	-	-	329	4,879	4,333
MACKEREL (EXCEPT SPANISH)	13	42	77	98	1,024	389
SABLEFISH	-	6	41	14	41	97
SALMON:						
CHINOOK OR KING	-	-	-	43	597	1,492
SILVER OR COHO	-	-	-	-	3	659
CHUM OR KETA	-	-	-	-	-	27
OTHER	-	-	-	1	5	165
TOTAL SALMON	-	-	-	44	605	2,363
SMELT	3	-	8	1	-	5
TUNA	1	-	-	-	1	-
WHITING, HEADED AND GUTTED	-	-	-	-	1,219	2,296
OTHER (EXCEPT BAIT)	6,966	4,490	6,767	5,724	5,118	4,648
TOTAL SALT-WATER FISH	8,540	6,029	9,055	8,423	15,922	17,280
FRESH-WATER:						
ROUND, DRESSED, ETC.:						
CHUBS	-	-	-	3	-	9
TROUT	81	69	73	74	59	73
OTHER (EXCEPT BAIT)	14	2	2	3	8	3
TOTAL FRESH-WATER FISH	95	71	75	80	67	85
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	3,804	2,961	3,520	4,584	6,597	6,957
SHELLFISH						
CRABS (INCLUDING CRAB MEAT)	681	772	743	437	365	148
SPINY LOBSTER (TAILS)	104	40	118	38	31	61
OYSTER MEATS	126	222	356	705	182	30
SCALLOP MEATS	49	67	87	102	136	148
SHRIMP:						
RAW (HEADLESS, SHELL-ON)	2,922	2,478	2,586	2,034	2,938	3,995
ALL OTHER (INCLUDING BREADED)	7,238	7,120	7,377	6,341	5,681	6,354
TOTAL SHRIMP	10,160	9,598	9,963	8,375	8,619	10,349
SQUID	574	598	321	25	209	46
OTHER	203	268	309	318	333	229
TOTAL SHELLFISH	11,897	11,565	11,897	10,000	9,875	11,011
TOTAL FISH AND SHELLFISH	24,336	20,626	24,547	23,087	32,461	35,333

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FREEZINGS, BY MONTHS, 1970 - Continued

SPECIES	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
FISH	THOUSAND POUNDS						
SALT-WATER:							
BLOCKS	174	1,730	254	307	98	102	4,425
FILLETS AND STEAKS:							
COD	154	231	53	49	46	26	1,368
FLOUNDER	393	104	130	154	125	140	2,075
HADDOCK	253	165	136	179	157	182	2,337
HALIBUT	203	155	23	7	-	-	900
OCEAN PERCH	1,946	1,691	1,576	1,279	966	792	15,402
POLLOCK	6	5	12	33	142	376	711
SALMON	16	5	103	24	-	-	204
WHITING	53	34	51	52	66	14	368
UNCLASSIFIED	278	535	141	122	62	101	2,028
TOTAL FILLETS AND STEAKS	3,302	2,925	2,225	1,899	1,564	1,631	25,393
TOTAL BLOCKS, FILLETS, AND STEAKS	3,476	4,655	2,479	2,206	1,662	1,733	29,818
ROUND, DRESSED, ETC.:							
HALIBUT	4,361	3,514	1,344	466	24	-	19,252
MACKEREL (EXCEPT SPANISH)	116	43	57	197	14	24	2,094
SABLEFISH	148	158	173	588	188	12	1,466
SALMON:							
CHINOOK OR KING	2,303	2,658	1,478	245	23	-	8,839
SILVER OR COHO	1,113	3,010	3,193	868	19	3	8,668
CHUM OR KETA	429	616	747	530	260	31	2,640
OTHER	1,128	1,224	71	8	-	5	2,627
TOTAL SALMON	4,973	7,508	5,489	1,651	302	39	22,974
SMELT	33	9	17	8	-	26	110
SWORDFISH	20	47	69	50	31	-	217
TUNA	255	787	503	87	5	1	1,640
WHITING, HEADED AND GUTTED	4,829	4,059	1,785	762	331	23	15,304
OTHER (EXCEPT BAIT)	6,382	7,430	8,663	7,655	5,646	5,159	74,648
TOTAL SALT-WATER FISH	24,593	28,210	20,579	13,672	8,203	7,017	167,523
FRESH-WATER:							
FILLETS AND STEAKS	-	-	-	6	-	-	6
ROUND, DRESSED, ETC.:							
CHUBS	-	10	-	-	2	-	24
TROUT	85	85	84	74	74	67	898
OTHER (EXCEPT BAIT)	1	19	17	-	7	10	86
TOTAL FRESH-WATER FISH	86	114	101	80	83	77	1,014
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	5,796	5,390	10,336	4,097	5,725	5,010	64,777
SHELLFISH							
CRABS (INCLUDING CRAB MEAT)	68	453	605	496	244	381	5,393
SPINY LOBSTER (TAILS)	35	133	59	81	97	67	864
OYSTER MEATS	26	18	25	130	48	137	2,005
SCALLOP MEATS	368	150	137	111	116	91	1,562
SHRIMP:							
RAW (HEADLESS, SHELL-ON)	6,126	7,861	7,477	7,441	4,713	4,652	55,223
ALL OTHER (INCLUDING BREADED)	6,536	6,223	6,668	8,056	7,490	6,884	81,968
TOTAL SHRIMP	12,662	14,084	14,145	15,497	12,203	11,536	137,191
SQUID	147	54	52	4	291	858	3,179
OTHER	950	408	448	411	483	426	4,786
TOTAL SHELLFISH	14,256	15,300	15,471	16,730	13,482	13,496	154,980
TOTAL FISH AND SHELLFISH	44,731	49,014	46,487	34,579	27,493	25,600	388,294

NOTE:--PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS REPORT.

SUMMARY OF FREEZINGS, BY SECTIONS, 1970

SPECIES	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST
FISH			[illegible]		
SALT-WATER:					
BLOCKS	3,719	-	-	-	-
FILLETS AND STEAKS:					
COD	1,293	8	12	-	-
FLOUNDER	1,765	-	126	-	-
HADDOCK	2,337	-	-	-	-
OCEAN PERCH	14,394	-	217	-	-
POLLOCK	711	-	-	-	-
WHITING	368	-	-	-	-
UNCLASSIFIED	303	29	629	-	-
TOTAL FILLETS AND STEAKS	21,171	37	984	-	-
TOTAL BLOCKS, FILLETS, AND STEAKS	24,890	37	984	-	-
ROUND, DRESSED, ETC.:					
MACKEREL (EXCEPT SPANISH)	1,133	315	1	-	-
SWORDFISH	121	-	-	-	-
TUNA	483	1	-	-	-
WHITING, HEADED AND GUTTED	15,247	57	-	-	-
OTHER (EXCEPT BAIT)	50,696	385	15,601	-	-
TOTAL SALT-WATER FISH	92,570	795	16,586	-	-
FRESH-WATER:					
ROUND, DRESSED, ETC.:					
CHUBS	-	-	-	24	-
TROUT	-	3	11	16	-
OTHER (EXCEPT BAIT)	-	-	34	21	4
TOTAL FRESH-WATER FISH	-	3	45	61	4
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	20,014	301	918	2,870	36
SHELLFISH					
CRABS (INCLUDING CRAB MEAT)	12	-	165	-	-
SPINY LOBSTER (TAILS)	76	-	773	-	-
OYSTER MEATS	-	-	1,645	-	-
SCALLOP MEATS	166	21	746	-	-
SHRIMP:					
RAW (HEADLESS, SHELL-ON)	1,297	22	3,530	-	-
ALL OTHER (INCLUDING BREADED)	1,530	-	32,418	-	-
TOTAL SHRIMP	2,827	22	35,948	-	-
SQUID	51	55	22	-	-
OTHER	1,909	122	2,211	-	-
TOTAL SHELLFISH	5,041	220	41,510	-	-
TOTAL FISH AND SHELLFISH	117,625	1,319	59,059	2,931	40

NOTE:--PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS TABLE.
THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
NEW ENGLAND--MAINE, MASSACHUSETTS, RHODE ISLAND, CONNECTICUT, AND NEW HAMPSHIRE.
MIDDLE ATLANTIC--NEW YORK, NEW JERSEY, PENNSYLVANIA, AND DELAWARE.
SOUTH ATLANTIC--MARYLAND, DISTRICT OF COLUMBIA, VIRGINIA, NORTH CAROLINA, GEORGIA, AND FLORIDA.
NORTH CENTRAL, EAST--OHIO, INDIANA, ILLINOIS, MICHIGAN, AND WISCONSIN.
NORTH CENTRAL, WEST--MINNESOTA, IOWA, MISSOURI, KANSAS, NEBRASKA, AND NORTH DAKOTA.

(CONTINUED ON NEXT PAGE)

SUMMARY OF FREEZINGS, BY SECTIONS, 1970 - Continued

SPECIES	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
FISH	THOUSAND POUNDS			
SALT-WATER:				
BLOCKS	-	525	181	4,425
FILLETS AND STEAKS:				
COD	-	55	-	1,368
FLOUNDER	17	165	2	2,075
HADDOCK	-	-	-	2,337
HALIBUT	-	65	835	900
OCEAN PERCH	-	791	-	15,402
POLLOCK	-	-	-	711
SALMON	-	204	-	204
WHITING	-	-	-	368
UNCLASSIFIED	25	1,034	6	2,028
TOTAL FILLETS AND STEAKS	42	2,314	845	25,393
TOTAL BLOCKS, FILLETS, AND STEAKS	42	2,839	1,026	29,818
ROUND, DRESSED, ETC.:				
HALIBUT	-	4,094	15,158	19,252
MACKEREL (EXCEPT SPANISH)	-	645	-	2,094
SABLEFISH	-	652	814	1,466
SALMON:				
CHINOOK OR KING	-	3,557	5,282	8,839
SILVER OR COHO	-	6,800	2,068	8,868
CHUM OR KETA	-	974	1,666	2,640
OTHER	-	836	1,791	2,627
TOTAL SALMON	-	12,167	10,807	22,974
SMELT	-	79	31	110
SWORDFISH	-	96	-	217
TUNA	-	1,156	-	1,640
WHITING, HEADED AND GUTTED	-	-	-	15,304
OTHER (EXCEPT BAIT)	4,890	2,910	166	74,648
TOTAL SALT-WATER FISH	4,932	24,638	28,002	167,523
FRESH-WATER:				
FILLETS AND STEAKS	6	-	-	6
ROUND, DRESSED, ETC.:				
CHUBS	-	-	-	24
TROUT	5	863	-	898
OTHER (EXCEPT BAIT)	10	17	-	86
TOTAL FRESH-WATER FISH	21	880	-	1,014
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	11,490	24,432	4,716	64,777
SHELLFISH				
CRABS (INCLUDING CRAB MEAT)	17	2,181	3,018	5,393
SPINY LOBSTER (TAILS)	15	-	-	864
OYSTER MEATS	189	171	-	2,005
SCALLOP MEATS	-	2	625	1,562
SHRIMP:				
RAW (HEADLESS, SHELL-ON)	49,732	225	417	55,223
ALL OTHER (INCLUDING BREADED)	47,232	541	247	81,968
TOTAL SHRIMP	96,964	766	664	137,191
SQUID	69	2,984	-	3,179
OTHER	-	544	-	4,786
TOTAL SHELLFISH	97,254	6,648	4,307	154,980
TOTAL FISH AND SHELLFISH	113,697	56,598	37,025	388,294

NOTE:--PRODUCTION OF FISH FROZEN ON UNITED STATES FISHING OR TRANSPORTING CRAFT IS NOT INCLUDED IN THIS TABLE.
THE SECTIONS INDICATED INCLUDE THE FOLLOWING STATES:
SOUTH CENTRAL--KENTUCKY, TENNESSEE, ALABAMA, MISSISSIPPI, LOUISIANA, TEXAS, AND OKLAHOMA.
PACIFIC--WASHINGTON, OREGON, CALIFORNIA, UTAH, COLORADO, IDAHO, AND ARIZONA.
ALASKA.

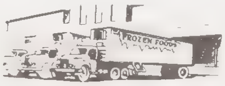
GENERAL REVIEW

SUMMARY OF FREEZINGS, BY SECTIONS AND MONTHS, 1970

MONTH	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST
	THOUSAND POUNDS			
JANUARY	7,928	45	6,069	-
FEBRUARY	4,928	80	5,581	-
MARCH	8,791	4	5,182	-
APRIL	7,813	159	4,973	4
MAY	10,687	546	3,951	2
JUNE	10,310	42	3,500	1,009
JULY	15,342	54	4,230	1,001
AUGUST	15,968	70	4,276	59
SEPTEMBER	13,039	30	4,686	53
OCTOBER	10,062	18	5,809	1
NOVEMBER	6,943	234	5,348	402
DECEMBER	5,814	37	5,454	400
TOTAL	117,625	1,319	59,059	2,931

MONTH	NORTH CENTRAL, WEST	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
	THOUSAND POUNDS				
JANUARY	1	7,612	2,534	147	24,336
FEBRUARY	-	6,677	2,879	481	20,626
MARCH	2	6,869	2,978	721	24,547
APRIL	1	6,924	2,143	1,070	23,087
MAY	-	7,742	4,854	4,679	32,461
JUNE	-	9,408	5,148	5,916	35,333
JULY	-	11,047	5,389	7,668	44,731
AUGUST	36	11,967	8,907	7,731	49,014
SEPTEMBER	-	12,808	11,782	4,089	46,487
OCTOBER	-	13,472	4,067	1,150	34,579
NOVEMBER	-	10,105	2,832	1,629	27,493
DECEMBER	-	9,066	3,085	1,744	25,600
TOTAL	40	113,697	56,598	37,025	388,294

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 81 AND 82.



COLD STORAGE HOLDINGS OF FROZEN FISHERY PRODUCTS, 1970

Holdings of frozen fishery products were highest on October 31, when 313.1 million pounds were in storage. The November 30 holdings of 311.9 million pounds were second highest, followed by the September 30 holdings of 310.3 million pounds. Holdings were lowest April 30, when they totaled only 191.6 million pounds.

SUMMARY OF HOLDINGS, BY MONTHS, 1970

SPECIES	JANUARY 31	FEBRUARY 28	MARCH 31	APRIL 30	MAY 31	JUNE 30
FISH	THOUSAND POUNDS					
SALT-WATER:						
BLOCKS	38,032	28,937	20,414	20,128	25,356	31,252
FILLETS AND STEAKS:						
COD	11,857	10,515	9,222	9,207	11,675	14,746
FLOUNDER	8,888	8,129	7,397	8,246	8,746	9,665
HADDOCK	5,434	4,273	3,771	4,088	3,910	3,945
HALIBUT	2,776	2,156	1,676	1,664	1,656	2,197
OCEAN PERCH	13,456	9,379	6,386	5,625	3,889	3,790
POLLOCK	1,463	1,079	890	746	694	679
SALMON	1,595	824	603	506	632	728
WHITING	1,010	855	702	539	696	1,096
UNCLASSIFIED	8,354	7,780	7,117	5,977	5,898	6,738
TOTAL FILLETS AND STEAKS	54,833	44,990	37,764	36,598	37,796	43,584
TOTAL BLOCKS, FILLETS, AND STEAKS	92,865	73,927	58,178	56,726	63,152	74,836
FISH STICKS AND PORTIONS (RAW AND COOKED)	24,506	20,112	21,345	22,031	22,090	23,940
ROUND, DRESSED, ETC.:						
HALIBUT	8,510	5,973	3,901	2,453	6,644	10,287
MACKEREL (EXCEPT SPANISH)	1,245	1,124	695	440	704	704
SABLEFISH	533	424	698	661	715	980
SALMON:						
CHINOOK OR KING	3,755	3,431	3,032	2,713	2,379	3,290
SILVER OR COHO	1,389	675	478	279	264	1,105
CHUM OR KETA	786	918	627	281	218	168
OTHER	892	687	222	150	134	315
TOTAL SALMON	6,822	5,711	4,359	3,423	2,995	4,878
SMELT	545	638	543	468	497	562
SWORDFISH	2,438	2,718	2,418	2,364	2,182	2,324
TUNA	125	76	94	96	85	90
WHITING, HEADED AND GUTTED	1,425	963	568	715	1,464	2,379
OTHER (EXCEPT BAIT)	12,322	11,186	10,116	10,508	10,296	10,958
TOTAL SALT-WATER FISH	151,336	122,852	102,915	99,885	110,824	131,938
FRESH-WATER:						
FILLETS AND STEAKS	824	692	590	682	662	750
ROUND, DRESSED, ETC.:						
CHUBS	233	193	204	130	135	210
TROUT	705	712	746	746	546	491
WHITEFISH	533	487	539	631	660	1,021
OTHER (EXCEPT BAIT)	2,278	2,369	1,519	1,442	1,417	1,241
TOTAL FRESH-WATER FISH	4,573	4,453	3,598	3,631	3,420	3,713
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	11,633	9,877	9,274	9,713	11,454	14,257
SHELLFISH						
CRABS (INCLUDING CRAB MEAT)	8,000	9,227	10,077	10,044	9,399	8,863
SPINY LOBSTER (TAILS)	7,388	6,473	6,727	6,323	6,142	6,794
OYSTER MEATS	1,108	1,046	1,187	1,584	1,756	1,376
SCALLOP MEATS	2,004	1,640	1,291	1,477	1,436	1,862
SHRIMP:						
RAW (HEADLESS, SHELL-ON)	42,099	39,429	36,560	35,277	32,628	34,699
ALL OTHER (INCLUDING BREADED)	23,207	22,553	20,957	20,622	19,786	20,057
TOTAL SHRIMP	65,306	61,982	57,517	55,899	52,414	54,756
SQUID	2,250	1,501	1,170	679	1,336	1,974
OTHER	2,449	2,243	2,351	2,346	2,887	3,215
TOTAL SHELLFISH	88,505	84,112	80,320	78,352	75,370	78,860
TOTAL FISH AND SHELLFISH	256,047	221,294	196,107	191,581	201,068	228,768
CURED FISH						
HERRING, SALTED	2,663	4,151	4,893	6,575	8,851	8,368
SALMON, MILD-CURED	988	1,275	1,477	1,023	1,154	1,310
OTHER SALTED	328	191	226	209	229	267
SMOKED FISH	235	167	171	172	187	185
TOTAL CURED FISH	4,214	5,784	6,767	7,979	10,421	10,130

(CONTINUED ON NEXT PAGE)

SUMMARY OF HOLDINGS, BY MONTHS, 1970 - Continued

SPECIES	JULY 31	AUGUST 31	SEPTEMBER 30	OCTOBER 31	NOVEMBER 30	DECEMBER 31
FISH	- - - - - - - - - - - - - - - THOUSAND POUNDS - - - - - - - - - - - - - - -					
SALT-WATER:						
BLOCKS	48,204	54,202	48,057	44,454	38,476	30,560
FILLETS AND STEAKS:						
COD	14,743	13,232	11,696	11,022	9,302	7,353
FLOUNDER	11,421	13,099	13,263	15,145	15,400	16,082
HADDOCK	4,437	4,869	4,616	4,948	5,330	5,869
HALIBUT	2,217	2,660	2,597	2,719	2,344	2,429
OCEAN PERCH	6,531	10,723	13,086	16,159	19,288	21,253
POLLOCK	866	866	861	745	765	1,085
SALMON	1,769	1,302	2,097	1,571	1,358	1,317
WHITING	1,369	1,948	2,606	2,995	3,066	3,204
UNCLASSIFIED	7,226	8,995	10,553	11,252	11,642	11,010
TOTAL FILLETS AND STEAKS	50,579	57,694	61,375	66,556	68,495	69,602
TOTAL BLOCKS, FILLETS, AND STEAKS	98,783	111,896	109,432	111,010	106,971	100,162
FISH STICKS AND PORTIONS (RAW AND COOKED)	22,102	22,695	20,352	20,953	22,607	21,962
ROUND, DRESSED, ETC.:						
HALIBUT	14,134	17,982	17,964	18,055	15,717	13,640
MACKEREL (EXCEPT SPANISH)	660	621	674	1,298	1,091	1,150
SABLEFISH	1,048	1,101	1,231	1,194	1,230	1,121
SALMON:						
CHINOOK OR KING	4,359	7,578	8,914	8,992	8,624	7,651
SILVER OR COHO	2,103	5,592	9,327	11,685	9,356	9,512
CHUM OR KETA	1,160	3,128	4,426	2,460	5,106	4,720
OTHER	1,275	2,519	2,198	1,597	624	482
TOTAL SALMON	8,897	18,817	24,865	24,734	23,710	22,365
SMELT	634	649	716	634	775	738
SWORDFISH	2,209	2,232	2,307	2,532	2,325	2,396
TUNA	364	1,088	947	924	652	475
WHITING, HEADED AND GUTTED	6,665	10,643	12,109	11,972	11,675	10,769
OTHER (EXCEPT BAIT)	10,962	11,221	12,340	12,396	11,680	12,995
TOTAL SALT-WATER FISH	166,458	198,945	202,937	205,702	198,433	187,773
FRESH-WATER:						
FILLETS AND STEAKS	808	817	1,099	1,069	1,091	958
ROUND, DRESSED, ETC.:						
CHUBS	264	331	520	535	502	473
TROUT	573	535	813	800	888	907
WHITEFISH	1,120	1,366	1,150	1,015	1,009	856
OTHER (EXCEPT BAIT)	1,385	1,326	1,655	2,082	2,007	2,264
TOTAL FRESH-WATER FISH	4,150	4,375	5,237	5,501	5,497	5,458
BAIT AND ANIMAL FOOD (SALT- AND FRESH-WATER)	12,876	12,828	15,602	8,101	11,770	12,845
SHELLFISH						
CRABS (INCLUDING CRAB MEAT)	8,021	7,734	7,587	8,102	7,082	6,955
SPINY LOBSTER (TAILS)	5,642	5,125	4,578	4,125	4,151	4,267
OYSTER MEATS	1,282	1,235	902	954	705	969
SCALLOP MEATS	1,925	2,287	2,119	2,549	2,428	2,428
SHRIMP:						
RAW (HEADLESS, SHELL-ON)	36,094	37,513	42,718	47,847	50,290	52,807
ALL OTHER (INCLUDING BREADED)	21,582	22,710	23,887	25,332	25,687	25,883
TOTAL SHRIMP	57,676	60,223	66,605	73,179	75,977	78,690
SQUID	1,347	1,701	887	934	1,423	1,728
OTHER	3,672	3,479	3,860	3,924	4,446	4,656
TOTAL SHELLFISH	79,565	81,784	86,538	93,767	96,212	99,693
TOTAL FISH AND SHELLFISH	263,049	297,932	310,314	313,071	311,912	305,769
CURED FISH						
HERRING, SALTED	8,151	8,332	8,174	7,923	7,599	6,055
SALMON, MILD-CURED	1,454	2,083	2,229	3,442	3,268	2,191
OTHER SALTED	249	296	286	415	286	759
SMOKED FISH	211	272	407	545	356	328
TOTAL CURED FISH	10,065	10,983	11,096	12,325	[illegible]	[illegible]

SUMMARY OF HOLDINGS, BY SECTIONS AND MONTHS, 1970

MONTHS	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	NORTH CENTRAL, EAST	NORTH CENTRAL, WEST	SOUTH CENTRAL	PACIFIC	ALASKA	TOTAL
	THOUSAND POUNDS								
JANUARY 31	95,286	45,297	20,206	14,618	3,852	25,788	46,905	4,095	256,047
FEBRUARY 28	74,752	40,975	19,277	14,393	3,207	22,289	43,120	3,281	221,294
MARCH 31	63,555	39,009	18,478	12,904	3,188	19,708	36,769	2,496	196,107
APRIL 30	62,711	40,115	16,749	12,478	3,091	18,384	35,446	2,607	191,581
MAY 31	72,659	38,645	17,013	11,857	3,025	15,738	37,568	4,563	201,068
JUNE 30	86,054	39,248	16,535	13,499	3,220	16,937	46,801	6,474	228,768
JULY 31	107,618	38,721	18,793	13,077	3,624	19,087	52,692	9,437	263,049
AUGUST 31	122,067	37,927	19,475	12,995	3,792	23,260	66,967	11,449	297,932
SEPTEMBER 30	115,794	40,552	21,648	13,973	4,006	24,653	77,643	12,045	310,314
OCTOBER 31	118,690	42,453	22,475	13,004	4,455	25,189	75,101	11,704	313,071
NOVEMBER 30	114,076	43,292	23,099	16,737	4,207	25,321	75,018	10,162	311,912
DECEMBER 31	107,636	43,855	24,001	15,819	4,114	27,323	73,496	9,525	305,769

NOTE:--THE STATES INCLUDED IN THE VARIOUS SECTIONS ARE INDICATED ON PAGES 81 AND 82.

COLD STORAGE HOLDINGS OF CURED FISH, 1970

Monthly average holdings of salted and smoked fish were 9.2 million pounds. Cured herring (6.8 million pounds) and mild-cured salmon (1.8 million pounds) accounted for 94 percent of the average cold storage inventories of cured fish.

SUMMARY OF HOLDINGS OF CURED FISH, BY MONTHS, 1970

MONTHS	SALTED			SMOKED	TOTAL
	HERRING	SALMON, MILD-CURED	OTHER		
	THOUSAND POUNDS				
JANUARY 31	2,663	988	328	235	4,214
FEBRUARY 28	4,151	1,275	191	167	5,784
MARCH 31	4,893	1,477	226	171	6,767
APRIL 30	6,575	1,023	209	172	7,979
MAY 31	8,851	1,154	229	187	10,421
JUNE 30	8,368	1,310	267	185	10,130
JULY 31	8,151	1,454	249	211	10,065
AUGUST 31	8,332	2,083	296	272	10,983
SEPTEMBER 30	8,174	2,229	286	407	11,096
OCTOBER 31	7,923	3,442	415	545	12,325
NOVEMBER 30	7,599	3,268	286	356	11,509
DECEMBER 31	6,055	2,191	759	328	9,333

GENERAL REVIEW

FOREIGN FISHERY TRADE

U.S. foreign trade in fishery products was worth a record $1.2 billion--an increase of $208.2 million compared with 1969. Imports for consumption were worth $1.0 billion--$195.1 more than in the previous year. Exports valued at $117.7 million increased $13.1 million compared with 1969.

Imports of edible fishery products were 1.9 billion pounds worth $812.5 million--a gain of 10 percent in volume and 15 percent in value compared with 1969. Important edible items received in greater volume were fresh or frozen tuna (including loins and discs), groundfish fillets and steaks, flounder fillets, shrimp, oysters, scallops, canned sardines in oil, unclassified canned fish (chiefly mackerel), and pickled or salted herring. Compared with 1969, imports of fresh or frozen sea herring, northern and spiny lobster, and canned sardines not in oil declined.

Shrimp, the major item imported with respect to value, accounted for 25 percent of the value of all imported edible items. Record imports of about 218.7 million pounds (including fresh or frozen, canned, and cured) worth $200.0 million were received from 73 countries. Mexico, India, Panama, Venezuela, and Guyana were among the principal sources. Mexico supplied 33 percent of the total U.S. imports of shrimp.

Imports of nonedible fishery products were valued at $226.9 million--a gain of $87.4 million compared with 1969. Increases occurred principally in imports of fish and marine animal oil, aquatic leathers, moss and seaweeds, marine shells and buttons, and other marine animal products such as chemicals and nonmetalic minerals and products.

Exports of domestic edible fishery products were 140.7 million pounds worth $95.2 million. The value increased 10 percent, but the volume remained about the same as in 1969. Exports of domestic nonedible fishery products were worth $22.5 million--a gain of $4.4 million compared with 1969.

Exports of foreign-produced fishery products were valued at $22.0 million--31 percent more than in 1969. A sharp increase in exports of fresh or frozen shrimp products accounted largely for the gain.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, 1969-70

ITEM		1969		1970	
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
FRESH OR FROZEN:					
FISH:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK. .	1,000 POUNDS	612	208	[illegible]	345
SALMON	DO	30,553	19,060	28,271	18,145
OTHER.	DO	22,255	5,166	17,471	4,408
SHELLFISH:					
SHRIMP	DO	25,219	22,146	29,570	26,415
OTHER.	DO	10,749	5,679	11,761	5,425
TOTAL FRESH AND FROZEN	DO	89,388	52,259	[illegible]	54,738
CANNED:					
FISH:					
MACKEREL	DO	174	35	98	20
SALMON	DO	15,536	11,565	16,811	13,134
SARDINES	DO	2,095	901	1,456	670
OTHER.	DO	5,105	4,649	5,747	5,822
SHELLFISH:					
SHRIMP	DO	5,682	5,753	6,076	6,652
SQUID.	DO	12,216	1,500	8,825	1,075
OTHER.	DO	3,641	2,737	4,113	3,542
TOTAL CANNED	DO	44,449	27,140	43,126	30,915
CURED, SALTED, PICKLED OR DRY CURED:					
UNCLASSIFIED FISH.	DO	6,768	7,027	9,236	8,075
UNCLASSIFIED SHELLFISH	DO	41	48	130	150
TOTAL CURED.	DO	6,809	7,075	9,366	8,225
TOTAL EDIBLE FISHERY PRODUCTS.	DO	140,646	86,474	14[illegible]	93,878
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL).	DO	[illegible]	11,048	158,787	15,699
WHALE AND SPERM OIL.	DO	3,249	465	5,099	707
SEAL FURS, DRESSED OR DYED	1,000 PIECES	75	3,926	104	5,282
SHELLS, UNMANUFACTURED	1,000 POUNDS	24,991	2,255	11,613	1,752
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE	-	-	365	-	166
TOTAL NONEDIBLE FISHERY PRODUCTS . .	-	-	18,059	-	23,606
GRAND TOTAL.	-	-	104,533	-	117,484

NOTE:--IN ADDITION TO THE EXPORT FIGURES THAT ARE SHOWN THERE ARE QUANTITIES OF FISH OILS AND CONCENTRATES THAT ARE EXPORTED FOR MEDICINAL PURPOSES, AND OTHER MISCELLANEOUS FISHERY PRODUCTS THAT CANNOT BE SHOWN BECAUSE THE EXPORT CLASSIFICATION COVERING THESE PRODUCTS INCLUDES OTHER THAN FISHERY PRODUCTS.

EXPORTS OF FOREIGN FISHERY PRODUCTS, 1969-70

ITEM		1969		1970	
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
FRESH OR FROZEN:					
FISH:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK. .	1,000 POUNDS	388	132	463	181
SALMON	DO	105	81	420	286
OTHER.	DO	1,781	405	1,466	679
SHELLFISH:					
SHRIMP	DO	10,513	12,184	14,699	16,050
OTHER.	DO	471	468	609	673
TOTAL FRESH AND FROZEN	DO	13,258	13,270	17,657	17,869
CANNED:					
FISH:					
MACKEREL	DO	-	-	25	29
SARDINES	DO	84	20	97	41
OTHER.	DO	123	170	445	515
SHELLFISH:					
SHRIMP	DO	39	47	50	69
SQUID.	DO	-	-	123	13
OTHER.	DO	3,077	2,935	2,692	2,748
TOTAL CANNED	DO	3,323	3,172	3,432	3,415
CURED SALTED, PICKLED, OR DRY CURED:					
UNCLASSIFIED FISH.	DO	148	85	543	353
UNCLASSIFIED SHELLFISH	DO	2	1	-	-
TOTAL CURED.	DO	150	86	543	353
TOTAL EDIBLE FISHERY PRODUCTS.	DO	16,731	16,528	21,632	21,637
NONEDIBLE FISHERY PRODUCTS					
FISH AND MARINE ANIMAL BODY AND LIVER OIL (EXCEPT MEDICINAL).	DO	12	3	2,739	115
WHALE AND SPERM OIL.	DO	224	65	1,323	58
SEAL FURS, DRESSED OR DYED	1,000 PIECES	8	152	5	34
SHELLS, UNMANUFACTURED	1,000 POUNDS	50	28	113	72
FISH, SHELLFISH, AND OTHER MARINE ANIMAL PRODUCTS, NONEDIBLE	-	-	42	-	84
TOTAL NONEDIBLE FISHERY PRODUCTS	-	-	290	-	363
GRAND TOTAL.	-	-	16,818	-	22,000

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1969-70

ITEM		1969		1970	
EDIBLE FISHERY PRODUCTS	UNIT	QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
FRESH OR FROZEN:					
FISH:					
WHETHER OR NOT WHOLE (EXCEPT FILLETS, STEAKS, ETC.):					
FRESH-WATER:					
LAKE TROUT	1,000 POUNDS	1,076	581	987	592
OTHER TROUT	DO	2,245	1,017	2,025	1,301
WHITEFISH	DO	8,963	4,701	8,447	4,742
YELLOW PIKE	DO	1/5,486	1/2,632	1/4,397	1/2,761
UNCLASSIFIED	DO	2/6,654	2/1,354	2/5,496	2/1,295
TOTAL FRESH-WATER FISH	DO	24,424	10,485	21,352	10,691
SALT-WATER:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK (INCLUDES EELS, SHAD, AND STURGEON)	DO	3/5,433	3/1,253	3/5,853	3/1,542
HALIBUT	DO	20,093	8,563	18,213	8,124
MACKEREL:					
FRESH	DO	896	102	357	40
FROZEN	DO	1,550	193	1,418	205
SALMON	DO	8,425	6,892	7,448	6,656
SEA HERRING	DO	4/119,550	4/1,853	4/103,924	4/1,852
SMELT	DO	8,585	1,509	8,489	1,570
SWORDFISH:					
FRESH	DO	6,877	4,776	7,868	4,701
FROZEN	DO	530	222	911	272
TUNA (WHOLE AND OTHER THAN WHOLE): 5/					
ALBACORE	DO	198,387	42,587	205,261	56,897
YELLOWFIN	DO	117,033	20,891	136,413	29,324
SKIPJACK	DO	63,538	7,462	80,702	10,010
UNCLASSIFIED	DO	14,346	1,487	17,164	2,194
TOTAL TUNA	DO	393,304	72,427	439,540	98,425
TUNA LOINS AND DISCS:					
ALBACORE	DO	1,189	639	1,430	976
UNCLASSIFIED	DO	6/984	6/431	6/1,799	6/1,123
TOTAL LOINS AND DISCS	DO	2,173	1,070	3,229	2,099
UNCLASSIFIED	DO	17,986	4,286	27,350	7,341
TOTAL SALT-WATER FISH	DO	585,402	103,146	624,600	132,827
FILLETS, STEAKS, ETC.:					
GROUNDFISH AND OCEAN PERCH:					
COD	DO	61,880	18,479	95,801	31,451
HADDOCK, HAKE, POLLOCK, AND CUSK	DO	33,875	12,870	36,133	15,517
OCEAN PERCH (ATLANTIC)	DO	64,225	16,418	54,173	17,042
BLOCKS OR SLABS	DO	266,748	60,081	272,655	70,622
TOTAL GROUNDFISH AND OCEAN PERCH	DO	426,728	107,848	458,762	134,632
OTHER:					
FLOUNDER OR FLATFISH (EXCEPT HALIBUT)	DO	48,140	19,637	58,904	27,379
HALIBUT	DO	8,448	4,593	6,501	3,982
SWORDFISH	DO	15,828	7,889	19,241	8,696
WOLFFISH (SEA CATFISH)	DO	6,904	2,331	6,242	2,250
UNCLASSIFIED SALT-WATER	DO	21,676	8,647	27,422	11,237
YELLOW PERCH	DO	7/14,178	7/9,064	7/11,313	7/7,523
UNCLASSIFIED FRESH-WATER	DO	5,260	1,928	6,479	2,525
TOTAL, OTHER THAN GROUNDFISH	DO	120,434	53,289	136,102	63,592
TOTAL FILLETS, STEAKS, ETC.	DO	547,162	161,137	594,864	198,224
FISH STICKS AND SIMILAR PRODUCTS	DO	1,573	687	1,171	630
TOTAL FISH, FRESH AND FROZEN	DO	1,158,561	275,455	1,241,987	342,372

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1969-70 - Continued

ITEM		1969		1970	
EDIBLE FISHERY PRODUCTS - CONTINUED	UNIT	QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
FRESH OR FROZEN: - CONTINUED:					
SHELLFISH, ETC.:					
CRABS:					
FRESH OR FROZEN (INCLUDING PREPARED OR PRESERVED, EXCEPT CANNED)	1,000 POUNDS	739	338	870	425
CRAB MEAT (FRESH COOKED)	DO	2,446	3,169	1,464	1,601
LOBSTERS:					
COMMON (INCLUDES FRESH-COOKED MEAT)	DO	17,447	18,381	17,113	18,991
SPINY	DO	44,992	94,327	37,741	74,801
SHRIMP:					
BREADED	DO	1,259	1,466	1,414	1,337
SHELL-ON	DO	121,293	116,324	139,978	136,480
PEELED, RAW	DO	63,792	51,267	69,501	55,575
PEELED, COOKED BUT NOT BREADED	DO	3,814	3,057	3,946	3,451
TOTAL SHRIMP	DO	190,158	172,114	214,839	196,843
CLAMS (IN SHELL OR SHUCKED)	DO	1,087	494	1,720	819
OYSTERS:					
EXCEPT SEED OYSTERS	DO	1,429	946	2,104	1,216
UNCLASSIFIED (PRINCIPALLY SEED OYSTERS)	DO	1,350	550	1,717	481
SCALLOPS	DO	14,322	14,654	16,830	19,666
FROG LEGS (INCLUDES PREPARED AND PRESERVED)	DO	3,880	3,135	5,103	3,959
TURTLES (LIVE ONLY)	DO	213	236	112	280
TOTAL SHELLFISH, ETC., FRESH AND FROZEN	DO	278,063	308,344	299,613	319,082
TOTAL FRESH AND FROZEN FISH, SHELLFISH, ETC.	DO	1,436,624	583,799	1,541,600	661,454
CANNED:					
FISH:					
ANCHOVIES:					
IN OIL	DO	4,673	4,978	5,457	6,295
NOT IN OIL	DO	771	348	1,036	418
SALMON:					
IN OIL	DO	18	34	24	49
NOT IN OIL	DO	2,199	1,342	2,417	1,528
SARDINES:					
IN OIL	DO	27,220	12,441	34,070	15,820
NOT IN OIL	DO	18,147	3,820	12,838	3,535
HERRING:					
IN OIL	DO	156	54	259	66
NOT IN OIL	DO	10,481	4,156	12,433	4,802
TUNA:					
IN OIL, ALBACORE	DO	155	125	153	114
IN BRINE:					
ALBACORE	DO	51,071	27,777	42,412	28,417
OTHER	DO	21,887	9,165	29,697	15,778
TOTAL IN BRINE	DO	72,958	36,942	72,109	44,195
BONITO AND YELLOWTAIL:					
IN OIL	DO	354	187	830	367
IN BRINE	DO	364	115	402	157
TOTAL BONITO AND YELLOWTAIL	DO	718	302	1,232	524
POLLOCK, SMOKED	DO	15	10	20	15
ANTIPASTO, IN OIL	DO	237	172	321	215
FISH CAKES, BALLS AND PUDDING	DO	1,313	414	1,672	553
CAVIAR AND OTHER FISH ROE (MAY INCLUDE SOME NOT CANNED)	DO	432	1,744	432	1,576
FISH PASTE AND SAUCE	DO	399	163	593	217
UNCLASSIFIED FISH:					
IN OIL	DO	757	429	1,239	540
NOT IN OIL	DO	17,494	2,476	47,046	6,101
TOTAL CANNED FISH	DO	158,106	69,950	193,351	95,165

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1969-70 - Continued

ITEM		1969		1970	
EDIBLE FISHERY PRODUCTS - CONTINUED	UNIT	QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
CANNED - CONTINUED:					
SHELLFISH, ETC.:					
ABALONE (MAY INCLUDE FRESH OR FRIED, AND CANNED PASTE AND SAUCE)	1,000 POUNDS	5,073	4,678	5,295	5,111
CLAMS:					
RAZOR	DO	5	4	(8)	(8)
OTHER	DO	2,618	1,620	4,568	2,957
CHOWDER, JUICE, ETC.	DO	123	24	66	9
CRAB MEAT (INCLUDES PASTE AND SAUCE)	DO	3,436	6,196	2,765	5,283
LOBSTER MEAT:					
COMMON (CANADA ONLY)	DO	2,470	7,620	2,381	7,803
SPINY (OTHER THAN CANADA)	DO	301	521	102	163
SHRIMP	DO	3,583	2,772	3,876	3,192
OYSTERS AND OYSTER JUICE	DO	16,720	6,373	14,953	8,140
UNCLASSIFIED (INCLUDES SHELLFISH PASTE AND SAUCE)	DO	9,465	4,302	14,029	7,752
TOTAL CANNED SHELLFISH	DO	43,794	34,110	48,035	40,410
TOTAL CANNED FISH, SHELLFISH, ETC.	DO	202,500	104,060	241,386	127,075
CURED:					
DRIED SHRIMP	DO	(9)	(9)	(9)	(9)
DRIED (UNSALTED):					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK	DO	780	453	639	476
SHARK FINS	DO	132	140	137	182
UNCLASSIFIED	DO	162	155	242	231
TOTAL DRIED (UNSALTED)	DO	1,074	746	1,018	889
PICKLED OR SALTED:					
ALEWIVES	DO	4	2	(8)	(8)
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:					
SKINNED OR BONED	DO	9,190	3,531	9,549	4,489
OTHER	DO	28,802	7,006	31,677	9,142
HERRING	DO	19,312	2,897	30,602	5,432
MACKEREL	DO	1,408	256	1,712	342
SALMON	DO	94	97	86	85
UNCLASSIFIED	DO	355	320	513	466
TOTAL PICKLED OR SALTED	DO	59,165	14,109	74,139	19,956
SMOKED OR KIPPERED:					
COD, HADDOCK, HAKE, POLLOCK, AND CUSK:					
WHOLE, BEHEADED, OR EVISCERATED OR BOTH	DO	161	57	162	66
FILLETS, STEAKS, ETC	DO	1,314	437	1,365	530
HERRING:					
WHOLE OR BEHEADED:					
HARD DRY SMOKED	DO	19	3	34	9
OTHER	DO	553	121	646	169
BONED AND NOT BONED (EVISCERATED, SPLIT)	DO	926	253	973	291
MACKEREL	DO	-	-	4	1
SALMON	DO	44	78	34	85
UNCLASSIFIED	DO	112	35	219	76
TOTAL SMOKED OR KIPPERED	DO	3,129	984	3,457	1,227
TOTAL CURED	DO	63,368	15,841	78,614	22,072
OTHER FISH AND SHELLFISH, NOT ESPECIALLY PROVIDED FOR	DO	4,079	1,109	11,700	1,929
TOTAL EDIBLE FISHERY PRODUCTS	DO	1,706,571	704,809	1,873,300	812,530
NONEDIBLE FISHERY PRODUCTS					
OILS, FISH AND MARINE ANIMAL:					
COD:					
INDUSTRIAL	1,000 GALLONS	486	226	622	323
MEDICINAL (LIVER)	DO	445	391	424	423
HERRING	DO	7	4	14	11
SOD	DO	33	14	17	9

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GENERAL REVIEW

IMPORTS OF FISHERY PRODUCTS ENTERED FOR CONSUMPTION, 1969-70 - Continued

ITEM	UNIT	1969		1970	
		QUANTITY	THOUSAND DOLLARS	QUANTITY	THOUSAND DOLLARS
NONEDIBLE FISHERY PRODUCTS - CONTINUED					
OILS, FISH AND MARINE ANIMAL - CONTINUED:					
WHALE:					
SPERM:					
REFINED	1,000 GALLONS	841	502	771	697
CRUDE	DO	[illegible]	[illegible]	[illegible]	[illegible]
OTHER	DO	(8)	3	(8)	2
UNCLASSIFIED:					
BODY	DO	17	16	17	37
LIVER	DO	22	159	22	163
SEAL	DO	-	-	48	38
TOTAL FISH AND MARINE ANIMAL OIL	DO	[illegible]	3,964	[illegible]	[illegible]
MEAL AND SCRAP, ANIMAL FEED	1,000 TONS	358	41,297	251	37,713
FISH SOLUBLES	DO	(8)	46	(8)	[illegible]
FISH SOUNDS	1,000 POUNDS	18	11	[illegible]	[illegible]
GLUE	DO	962	272	1,014	305
ISINGLASS	DO	15	24	20	33
PEARL ESSENCE	DO	34	[illegible]	42	429
AQUARIUM FISH (INCLUDING GOLDFISH)	-	-	[illegible]	-	3,495
FISH (OTHER THAN FOR HUMAN CONSUMPTION)	-	-	12,367	-	[illegible]
CUTTLEFISH BONE	1,000 POUNDS	201	70	220	68
SHELLS AND BUTTONS					
MARINE SHELLS, CRUDE (UNMANUFACTURED)	DO	2,530	[illegible]	[illegible]	[illegible]
SHELL AND MOTHER-OF-PEARL, ORNAMENTED	-	-	1,114	-	[illegible]
OCEAN AND FRESH-WATER PEARL AND SHELL BUTTONS AND BLANKS	-	-	[illegible]	-	[illegible]
PEARLS:					
CULTURED	-	-	12,232	-	[illegible]
NATURAL	-	-	475	-	[illegible]
TOTAL PEARLS	-	-	[illegible]	-	[illegible]
AMBERGRIS	-	-	41	-	76
SPERMACETI WAX	1,000 POUNDS	[illegible]	[illegible]	[illegible]	[illegible]
AQUATIC LEATHERS (INCLUDING SEALSKINS, REPTILIAN AND OTHER AQUATIC LEATHER PRODUCTS)	-	-	[illegible]	-	[illegible]
MOSS AND SEAWEEDS	1,000 POUNDS	[illegible]	[illegible]	22,554	[illegible]
AGAR-AGAR	DO	[illegible]	1,483	[illegible]	[illegible]
SODIUM ALGINATE	DO	[illegible]	[illegible]	[illegible]	[illegible]
SPONGES:					
SHEEPSWOOL	DO	10	27	8	[illegible]
YELLOW, GRASS, OR VELVET	DO	12	20	[illegible]	[illegible]
HARDHEAD, REEF, AND OTHER	DO	76	930	[illegible]	[illegible]
TOTAL SPONGES	DO	98	977	77	[illegible]
CORAL, UNCUT, UNMANUFACTURED	DO	445	62	251	51
OTHER FISH, SHELLFISH AND MARINE ANIMAL PRODUCTS:					
CHEMICALS AND RELATED PRODUCTS	-	-	[illegible]	-	53,187
NONMETALIC MINERALS AND PRODUCTS	-	-	6,736	-	31,010
MISCELLANEOUS ITEMS	-	-	[illegible]	-	7,189
TOTAL NONEDIBLE FISHERY PRODUCTS	-	-	[illegible]	-	[illegible]
GRAND TOTAL	-	-	844,293	-	[illegible]

1/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR "PIKE, EXCEPT YELLOW PIKE" ARE INCLUDED WITH "YELLOW PIKE".

2/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR LAKE HERRING, CISCOES, AND CHUBS ARE INCLUDED WITH "UNCLASSIFIED FRESH-WATER FISH".

3/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR "STURGEON" ARE INCLUDED WITH "COD, HADDOCK, HAKE, POLLOCK, AND CUSK".

4/ INCLUDES BUREAU OF CUSTOMS DATA ON IMPORTS OF FRESH SEA HERRING INTO MAINE THAT AMOUNTED TO 78,472,875 POUNDS. BUREAU OF CENSUS DATA, WHICH DID NOT INCLUDE MOST ENTRIES VALUED AT LESS THAN $250, AMOUNT TO 86,902,170 POUNDS, VALUED AT $1,556,896.

5/ INCLUDES LANDINGS OF FOREIGN-CAUGHT TUNA IN AMERICAN SAMOA. SUCH LANDINGS ARE NOT INCLUDED IN THE BUREAU OF THE CENSUS DATA BECAUSE OF THE TERRITORIAL SITUATION OF THE POSSESSION.

6/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR "YELLOWFIN TUNA LOINS AND DISCS" ARE INCLUDED WITH "UNCLASSIFIED TUNA LOINS AND DISCS".

7/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR "YELLOW PIKE" ARE INCLUDED WITH "YELLOW PERCH".

8/ LESS THAN 1,000 UNITS OR $1,000.

9/ BECAUSE OF REVISIONS IN COMMODITY DESCRIPTIONS EFFECTIVE ON JANUARY 1, 1969, DATA FOR "DRIED SHRIMP" ARE INCLUDED WITH "FRESH AND FROZEN SHRIMP".

SECTION 2 - NEW ENGLAND FISHERIES

Commercial fishermen operating out of ports in the New England States (Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut) landed 531.3 million pounds of fish and shellfish worth $91.0 million--a decrease of 37.0 million pounds (7 percent), but a gain of $10.5 million (13 percent) compared with 1969. Landings of otter trawl-caught industrial fish, haddock, shrimp, cod, and sea herring declined sharply; landings of ocean perch, pollock, and sea scallop meats were slightly less than in 1969. The harvest of blackback and yellowtail flounders, white hake, and soft clam meats increased substantially compared with 1969; landings of alewives, scup, whiting, and bluefin tuna gained moderately. Landings of most other species were about the same as in the previous year. With few exceptions, exvessel prices for fish and shellfish increased for all species. Fishermen were paid a record high average of 17.1 cents per pound in 1970--compared with 14.2 cents in 1969. Average prices per pound paid for haddock, northern lobsters, shrimp, and sea scallop meats had the sharpest gain.

Massachusetts led all States in volume with 286.9 million pounds; followed by Maine, 158.8 million; and Rhode Island, 79.4 million pounds. Compared with 1969, landings were somewhat greater in Massachusetts, but declined in Rhode Island and Maine. Rhode Island landings were down 9.1 million pounds because of smaller landings of industrial fish. In Maine, the 32.5 million-pound decrease resulted from smaller landings of sea herring (sardines), shrimp, ocean perch, and whiting. The value of landings was greater for all New England States except Connecticut, where it was about the same as in 1969. Massachusetts led all States in value of landings with $47.0 million (51 percent); Maine was next with $30.7 million (34 percent); and Rhode Island, $10.9 million (12 percent). New Hampshire and Connecticut together accounted for the remaining 3 percent.

Fishermen and vessels. The New England fisheries had 22,218 fishermen using 686 vessels (5 net tons or greater) and 11,955 other craft--a decline of 9 vessels, but an increase of 2,269 fishermen and 1,155 other craft compared with 1969.

Processed products. The value of processed seafood items was $246.5 million--an increase of $20.6 million compared with 1969. Massachusetts led in production with products valued at $175.8 million, followed by Maine with $48.9 million; New Hampshire, $16.9 million; Rhode Island, $4.7 million; and Connecticut, $223,000. The five States had 8,960 persons employed in 537 wholesaling and processing plants.

Vessel construction. In 1970, five newly constructed vessels were added to the New England fleet and two more vessels were purchased from outside the region. In addition, the 135-foot steel stern trawler, Tremont, a sistership to the Old Colony, was built in Wisconsin to operate out of Boston for groundfish and flounders. The Tremont and the Old Colony were the newest, most modern, and most efficient vessels in the groundfish fishery. Six vessels were lost at sea, and 15 vessels changed ownership.

Labor. Two ports had labor troubles. In New Bedford, Mass., two labor disputes were settled quickly. One ended without loss of time when a contract that included fringe benefits for fishermen was negotiated between fishermen and vessel owners. The other dispute was between plant owners and workers unloading fishing vessels. It led to a 1-day tieup that ended quickly when the workers received higher wages. In Gloucester, Mass., workers had an 8-week dispute with a stevedoring firm. The firm had imports to unload and finally diverted considerable tonnage to Portsmouth, N.H. In another dispute, shore plant workers in Gloucester were idle for 3 weeks because of a disagreement with management over a new contract.

Groundfish. Landings of six groundfish species (cod, cusk, haddock, ocean perch, pollock, and white hake) were 149.0 million pounds--22.7 million less than in 1969. Despite sharply decreased landings, the value of $15.5 million was just slightly less than the $15.6 million fishermen received in 1969. Compared with 1969, landings of only two species improved--cusk and white hake. The production of ocean perch (55.3 million pounds) and pollock (8.8 million) was just slightly less than in 1969. Cod landings, however, declined sharply from 56.9 million pounds in 1969 to 52.7 million in 1970.

NEW ENGLAND FISHERIES

The decline of the New England haddock fishery continued. Haddock landings decreased from the 45.8 million pounds taken in 1969 to 26.9 million in 1970--the smallest production on record. The 1963 year class of haddock, one of the largest on record, was overfished by both foreign and domestic fleets in 1965 and 1966. There has been no successful year class since 1963. A survey by the NMFS research vessel, Albatross IV, showed that the 1969 year class of haddock was poor on Georges Bank--the sixth continuous year of markedly low indexes. As a result, haddock will probably not be plentiful for at least 3 years on that Bank. The survey also showed that the abundance of the 1969 year class of haddock on Browns Bank had improved substantially, but because of previous poor year classes the fish were expected to decrease during the next 3 to 4 years. As conservation measures, the International Commission for the Northwest Atlantic Fisheries (ICNAF) instituted catch quotas and closed seasons on Georges and Browns Banks.

Imports of groundfish fillets (including blocks) were a record 458.8 million pounds--32.0 million (8 percent) more than in 1969, the former record year. The available supply (U.S. production plus imports) of groundfish fillets and blocks in the United States was a record 501.7 million pounds--a gain of 27.7 million compared with 1969. U.S. production of 42.9 million pounds was only about 9 percent of the total amount available for consumption. In 1950, U.S. production was 67 percent of the total.

Flounders. Landings were 103.9 million pounds worth $15.4 million--a gain of 4.2 million pounds and $2.1 million compared with 1969. All species increased in volume except dab and fluke. Blackback flounder production increased from 20.9 million pounds in 1969 to 22.3 million in 1970. Yellowtail flounder landings of 67.3 million pounds worth $9.9 million increased 4 percent in quantity and 16 percent in value compared with 1969. Yellowtails accounted for 65 percent of the volume and 64 percent of the value of the total flounder production. The yellowtail flounder resource, however, has been overfished by both domestic and foreign fleets during the last several years. Accordingly, ICNAF has recommended proposed regulations for member nations fishing the resource. Beginning in 1971, the fishery will be regulated by closed seasons, catch quotas, and trawl mesh size regulation.

Sea herring. The herring industry had a poor year. Landings of 66.3 million pounds declined 3 percent compared with 1969. In Maine, where sea herring are used principally to pack canned sardines, landings declined sharply from 54.2 million pounds in 1969 to 36.6 million in 1970. It was the smallest harvest since 1938, and far below the record 185.5 million pounds landed in Maine in 1950. Fishing was poor in the Gulf of Maine, and canneries did not operate at full capacity during the year. The pack of Maine sardines was 806,500 standard cases worth $11.2 million--compared with 1,042,800 cases worth $11.5 million in 1969. The pack was the smallest since 1938. Twenty-one canneries packed sardines in 1970--the same number as in 1969. Imports of sea herring from Canada into Maine ports were 78.5 million pounds--compared with 94.5 million in 1969 and 165.8 million in 1968.

In 1970, the Maine Sardine Council made a grant to The Research Institute of the Gulf of Maine (TRIGOM) for a joint study with the Maine Medical Center on the effect of environmental conditions on the habits, supply, and movement of herring along the Maine coast. The study will supplement the biological research carried on by State and Federal agencies during the past 25 years.

Sea herring landings in Massachusetts increased from 9.9 million pounds in 1969 to a near-record 27.4 million in 1970. Most of the catch was taken from Jefferys Ledge. About one-third of the catch was cut into butterfly fillets and exported frozen to Europe. The rest of the catch was made into meal and oil. In addition to the domestic landings, about 23.4 million pounds were taken by foreign vessels outside the U.S. 12-mile limit and transferred to U.S. carrier vessels for delivery to domestic fish meal plants. Such shipments are treated as duty-free imports by Bureau of Customs regulations.

Unclassified industrial fish. Landings of unclassified species of fish for processing into fish meal and oil were 51.6 million pounds--compared with 72.8 million in 1969. Nearly 58 percent of the landings were made at Point Judith, R.I., and most of the remainder at New Bedford and Gloucester, Mass. In addition to the 51.6 million pounds of unclassified industrial fish reported, about 27.2 million pounds of alewives, menhaden, sea herring, and other species were used for industrial purposes. In 1970, imports of fish meal were down substantially, with a resulting higher exvessel price for raw materials for industrial use.

Whiting. Landings of 40.1 million pounds increased slightly compared with the 39.3 million pounds taken in 1969--the smallest harvest in 30 years. The value was a record $3.4 million--a 57-percent gain compared with 1969. Principal reason for the sharp increase was that fishermen were paid 10 cents per pound for their catch at the beginning of the season. The high price was a result of the need to replenish inventories depleted by the unusually small landings of the previous year. The average price per pound paid to fishermen was 8.4 cents in 1970--compared with 5.5 cents in 1969. By the end of the year, the industry was becoming concerned about finding a ready market for the high-priced inventory.

Lobsters. Landings of 30.4 million pounds were slightly less than the record 30.7 million taken in 1969. The value, however, was a record $29.7 million--$3.5 million more than in the previous year. Compared with 1969, Maine landings (18.2 million pounds) declined 8 percent, but Massachusetts landings (5.7 million) increased 15 percent and Rhode Island landings (a record 5.2 million pounds) increased 22 percent. The offshore fishery for lobsters has developed from about 6 percent of the total landings in 1960 to an estimated 21 percent in 1970. Although most of the offshore production was taken in otter trawls, a deep-water pot fishery had begun to develop. About 1.2 million pounds of offshore lobsters were taken in pots in 1970. One of the major problems of this expanding fishery is that offshore lobster pots are extremely vulnerable to destruction by both domestic and foreign otter trawlers on the same grounds.

An official of the Maine Department of Sea and Shore Fisheries predicted that in its northern range the lobster will be less plentiful from about 1970 to 1975 because the waters are cooling and no longer reach the optimum temperature for the species that prevailed during the 1960's. If this theory is valid, lobster catches should improve near the southern range of the lobster, but decline in New England and the Maritime Provinces.

Shrimp. Landings of 23.5 million pounds worth a record $4.7 million declined 4.8 million pounds compared with the record landings of 1969, but increased $1.2 million in value. Maine landings (17.0 million pounds) were 30 percent less than in 1969, but the fishery gained in Gloucester, Mass., where landings were a record 6.4 million pounds--an increase of 64 percent. Fishermen also made small landings in New Hampshire.

The northern shrimp fishery on the Atlantic coast appears to be edging southward. Maine's commercial fishermen have generally harvested the pink shrimp as an inshore winter crop from September or October into April or May. However, exploratory fishing work by NMFS has demonstrated that during the rest of the year the shrimp are in deeper water and within reach of vessels from other coastal States. Thus the traditional shrimping season can be extended to include the summer. As a result, vessels from New Hampshire and Massachusetts fished intensively in 1970.

Sea scallops. Landings of 4.5 million pounds of sea scallop meats worth $6.0 million declined 640,000 pounds, but increased $400,000 compared with 1969. The harvest was the smallest since 1945. As landings declined, marginal scallop vessels turned to other fisheries. Many of the vessels remaining in the scallop fishery reduced their crews from 11 to 6 men. Fishing was poor off the Middle Atlantic States--most of the production came from the Georges Bank and Channel areas. Because sea scallops were scarce, fishermen continued using small scallops that in former years would have been returned to the ocean to grow another season.

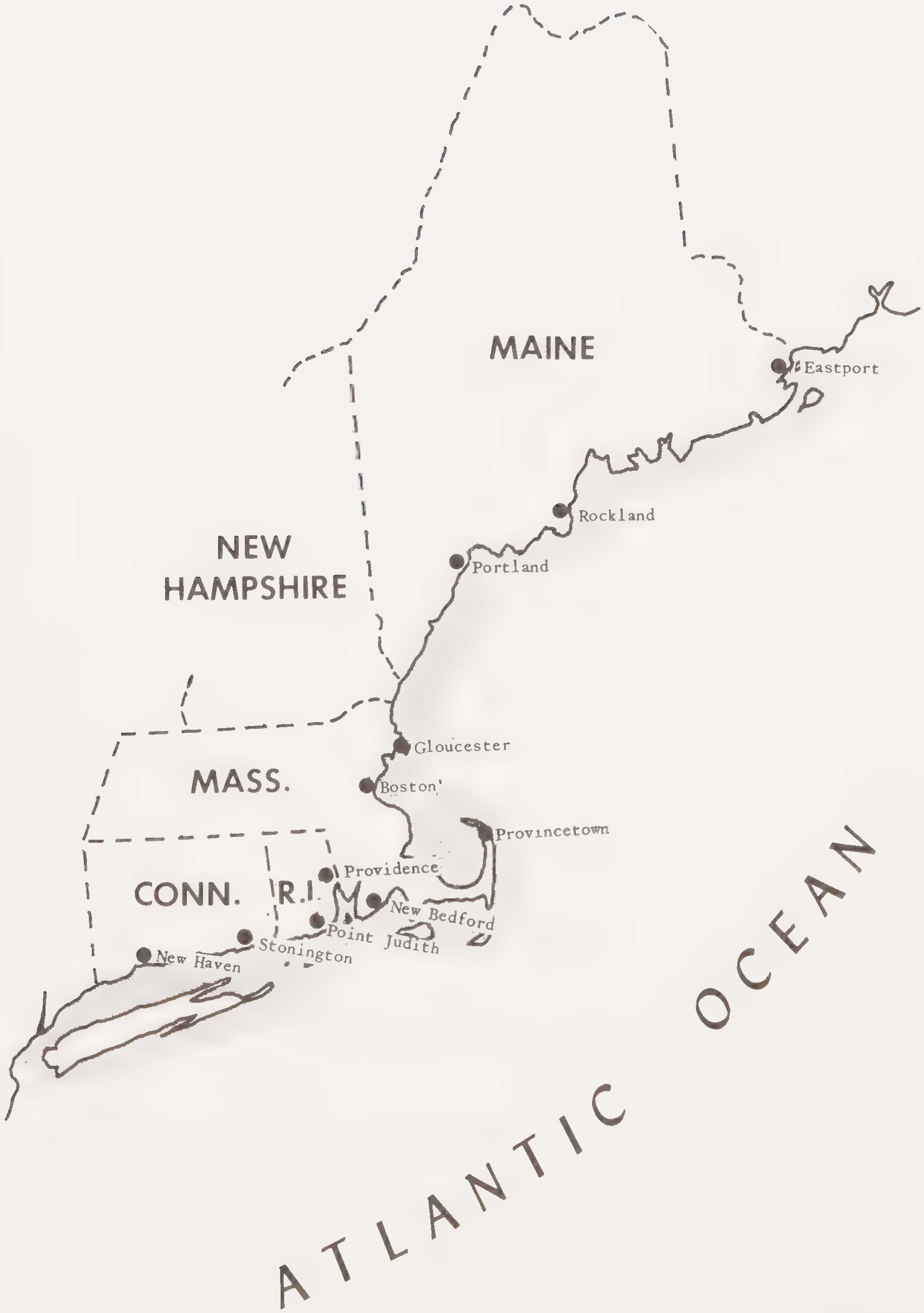
New construction. Early in 1970, a group of Provincetown, Mass., fishermen, principally small boat owners, were legally incorporated as a fishery cooperative. Starting with only 30 members, the cooperative soon had about 100. Construction began on a building to be used for handling fish--most of them to be trucked to distant markets.

Construction also began on a breakwater and harbor of refuge for Provincetown--a structure that will be a great asset to the community and to the fishing fleets.

Other information. The following tables contain summarized and detailed information on the 1970 operating units and landings of fish and shellfish in the New England States. Additional data on many aspects of the New England fisheries may be found in Maine, Massachusetts, and Rhode Island monthly and annual landings bulletins released by the Statistics and Market News Division and in daily, monthly, and annual reports published by the NMFS Fishery Market News Service, Commonwealth Pier, Boston, Mass.

Acknowledgments. The following organizations helped collect the data appearing in this section: Maine Department of Sea and Shore Fisheries; New Hampshire Fish and Game Department; Massachusetts Department of Natural Resources, Division of Marine Fisheries; Rhode Island Department of Agriculture and Conservation, Division of Fish and Game; Connecticut State Board of Fisheries and Game; and Connecticut State Shell Fish Commission.

NEW ENGLAND FISHERIES


MAINE
Eastport
Rockland
Portland
NEW HAMPSHIRE
Gloucester
Boston
MASS.
Provincetown
Providence
CONN.
R.I.
New Bedford
Point Judith
Stonington
New Haven
ATLANTIC OCEAN

NEW ENGLAND STATES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
MAINE	112	5	47	26	159	31
NEW HAMPSHIRE	(1)	(1)	1	1	1	1
MASSACHUSETTS	265	30	22	17	287	47
RHODE ISLAND	71	4	9	6	79	11
CONNECTICUT	3	(1)	2	1	5	2
TOTAL	451	40	80	51	531	91

1/ LESS THAN 500,000 POUNDS OR $500,000.
NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	MAINE	NEW HAMPSHIRE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN:						
ON VESSELS	578	-	2,318	619	88	3,236
ON BOATS AND SHORE:						
REGULAR	5,327	70	973	394	121	6,885
CASUAL	5,206	455	4,893	880	663	12,097
TOTAL	11,111	525	8,184	1,893	872	22,218
VESSELS, MOTOR	199	-	404	136	37	686
GROSS TONNAGE	10,640	-	31,392	7,165	818	43,798
BOATS:						
MOTOR	6,633	240	3,280	951	599	11,703
OTHER	114	10	86	27	15	252
GEAR:						
HAUL SEINES, COMMON	-	4	3	6	17	30
LENGTH, YARDS	-	280	145	643	574	1,642
STOP SEINES	27	-	-	-	-	27
LENGTH, YARDS	11,400	-	-	-	-	11,400
PURSE SEINES:						
HERRING	25	-	2	-	-	27
LENGTH, YARDS	8,750	-	900	-	-	9,650
MACKEREL	-	-	5	-	-	5
LENGTH, YARDS	-	-	1,575	-	-	1,575
MENHADEN	-	-	-	2	-	2
LENGTH, YARDS	-	-	-	560	-	560
TUNA	-	-	3	-	-	3
LENGTH, YARDS	-	-	1,900	-	-	1,900
BAG NETS	3	6	-	-	-	9
OTTER TRAWLS:						
FISH	208	3	350	81	68	651
YARDS AT MOUTH	3,985	62	9,346	2,165	901	14,993
LOBSTER	-	-	16	38	-	48
YARDS AT MOUTH	-	-	463	1,118	-	1,404
SHRIMP	422	3	60	-	-	476
YARDS AT MOUTH	6,807	62	1,553	-	-	8,276
WEIRS	52	4	-	-	-	56
POUND NETS, FISH	-	-	19	-	-	19
FLOATING TRAPS	3	-	11	17	-	31
FYKE AND HOOP NETS, FISH	-	-	-	-	12	12
POTS AND TRAPS:						
CONCH	-	-	1,650	1,295	1,136	4,081
CRAB	-	468	30	130	25	653
EEL	-	-	244	257	475	976
LOBSTER	1,180,000	17,800	138,646	30,257	25,719	1,390,882
SHRIMP	400	-	-	-	-	400
BOX TRAPS	3	-	-	-	-	3
GILL NETS:						
ANCHOR, SET, OR STAKE	6	2	17	-	5	29
SQUARE YARDS	50,120	10,000	88,400	-	954	141,474
DRIFT:						
SHAD	-	-	-	-	30	30
SQUARE YARDS	-	-	-	-	59,426	59,426
OTHER	-	-	134	-	15	149
SQUARE YARDS	-	-	75,040	-	3,558	78,598
LINES:						
HAND	271	425	1,901	289	158	3,044
HOOKS	271	1,275	3,242	353	187	5,328

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	MAINE	NEW HAMPSHIRE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
GEAR - CONTINUED:						
LINES - CONTINUED:						
TROLL	-	-	18	48	-	66
HOOKS	-	-	18	48	-	66
LONG OR SET WITH HOOKS	40	3	97	4	-	144
HOOKS	140,000	6,500	256,070	3,240	-	405,810
DIP NETS, COMMON	56	20	169	-	16	261
HARPOONS:						
SWORDFISH	-	-	17	4	-	21
OTHER	11	6	24	-	-	41
SPEARS	-	14	62	4	-	80
DREDGES:						
CLAM	-	-	10	38	10	54
YARDS AT MOUTH	-	-	8	38	10	52
MUSSEL	-	-	14	-	-	14
YARDS AT MOUTH	-	-	13	-	-	13
OYSTER, COMMON	-	-	4	-	14	18
YARDS AT MOUTH	-	-	4	-	20	24
SCALLOP:						
BAY	-	-	1,663	-	-	1,663
YARDS AT MOUTH	-	-	1,984	-	-	1,984
SEA	53	-	64	[illegible]	-	[illegible]
YARDS AT MOUTH	204	-	256	29	-	477
TONGS:						
OYSTER	-	-	27	7	1	35
OTHER	-	-	83	318	10	411
RAKES:						
OYSTER	-	-	[illegible]	-	-	[illegible]
OTHER	[illegible]	-	1,068	633	-	[illegible]
HOES	3,934		718	70	-	4,744
FORKS	-	-	67	-	-	67
DIVING OUTFITS	-	-	10	[illegible]	-	105

LANDINGS BY STATES, 1970

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	1,623	40	31	1	1,156	16
ANGLERFISH	-	-	-	-	132	7
BLUEFISH	-	-	-	-	169	22
BONITO	-	-	-	-	9	1
BUTTERFISH	-	-	-	-	53	10
COD	5,427	357	189	22	43,761	4,912
CUSK	266	19	1	(1)	1,082	82
EEL, COMMON	38	9	6	1	57	14
FLOUNDERS:						
BLACKBACK	298	21	8	1	15,898	2,369
DAB	721	64	6	1	4,737	677
FLUKE	-	-	-	-	41	15
GRAY SOLE	446	42	4	(1)	5,023	809
LEMON SOLE	3	(1)	-	-	1,949	496
YELLOWTAIL	155	13	48	5	57,462	8,659
TOTAL FLOUNDERS	1,623	140	66	7	85,110	13,025
HADDOCK	1,013	184	7	2	25,308	5,745
HAKE:						
RED	-	-	-	-	576	25
WHITE	1,411	75	1	(1)	2,498	167
HALIBUT	52	25	(1)	(1)	144	93
HERRING, SEA	36,593	653	-	-	27,446	462
LAUNCE	-	-	18	4	17	3
MACKEREL, ATLANTIC	482	2	-	-	5,003	247
MENHADEN	-	-	-	-	980	13
OCEAN PERCH	46,688	2,274	8	(1)	8,587	450
POLLOCK	811	49	3	(1)	7,942	640
SALMON, ATLANTIC	(1)	(1)	-	-	-	-
SCUP OR PORGY	-	-	-	-	408	158
SEA BASS, BLACK	-	-	-	-	20	12
SHAD	-	-	-	-	1	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	MAINE		NEW HAMPSHIRE		MASSACHUSETTS	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SHARKS:						
GRAYFISH.	1	(1)	-	-	4	(1)
UNCLASSIFIED.	-	-	-	-	3	1
TOTAL SHARKS.	1	(1)	-	-	7	(1)
SKATES.	-	-	-	-	15[illegible]	6
SMELT	62	18	58	3	5	
STRIPED BASS.	-	-	14	[illegible]	1,244	350
STURGEON, COMMON.	6	(1)	(1)	(1)	[illegible]	(1)
SWORDFISH	53	59	-	-	109	131
TAUTOG.	-	-	-	-	41	[illegible]
TILEFISH.	-	-	-	-	17	[illegible]
TUNA:						
BLUEFIN	62	4	15	1	3,106	440
LITTLE.	-	-	-	-	47	25
TOTAL TUNA.	62	4	15	1	3,153	465
TURBOT.	-	-	-	-	5	1
WHITE PERCH	-	-	-	-	1	(1)
WHITING	14,537	1,134	2	1	21,591	1,871
WOLFFISH.	19	1	(1)	(1)	576	33
UNCLASSIFIED:						
FOR FOOD.	885	70	4	[illegible]	7,947	633
FOR BAIT, REDUCTION, AND ANIMAL FOOD.	109	3	6	(1)	41,034	358
TOTAL FISH.	112,061	5,155	149	66	264,629	39,959
SHELLFISH ET AL.						
CRABS:						
GREEN	-	-	41	5	4	1
ROCK.	1,571	90	20	1	17	2
TOTAL CRABS	1,571	90	61	6	21	3
LOBSTERS, AMERICAN.	18,172	17,070	655	[illegible]	5,685	7,953
SHRIMP.	17,004	1,511	1[illegible]	[illegible]	6,398	1,167
CLAMS:						
HARD:						
PUBLIC.	8	9	-	-	1,077	917
PRIVATE	-	-	-	-	210	244
OCEAN QUAHOG.	-	-	-	-	4	2
RAZOR	-	-	-	-	4	2
SOFT, PUBLIC.	5,259	2,497	-	-	1,159	918
SURF.	-	-	-	-	46	19
TOTAL CLAMS	5,267	2,506	-	-	2,540	2,102
CONCHS.	-	-	-	-	107	30
MUSSELS, SEA.	301	64	-	-	166	34
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	-	-	-	-	2	7
FALL.	-	-	-	-	4	11
PRIVATE:						
SPRING.	-	-	-	-	22	64
FALL.	-	-	-	-	30	84
TOTAL OYSTERS	-	-	-	-	58	166
PERIWINKLES AND COCKLES . .	40	10	-	-	-	-
SCALLOPS:						
BAY	-	-	-	-	1,101	1,704
SEA	180	216	-	-	4,262	5,779
TOTAL SCALLOPS. . . .	180	216	-	-	5,363	7,483
SQUID	(1)	(1)	-	-	105	49
SEA URCHINS	60	4	-	-	-	-
IRISH MOSS.	2,538	76	-	-	1,360	41
BLOODWORMS.	845	1,216	-	-	(1)	(1)
SANDWORMS	747	622	15	15	41	137
TOTAL SHELLFISH ET AL.	46,725	25,517	884	762	22,307	7,054
GRAND TOTAL	158,806	30,672	1,333	828	286,936	47,013

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

NEW ENGLAND FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	144	3	122	3	3,076	63
ANCHOVIES	11	2	-	-	11	2
ANGLERFISH	8	(1)	(1)	(1)	140	7
BILLFISH	(1)	(1)	-	-	(1)	(1)
BLUEFISH	323	32	85	13	577	67
BONITO	114	48	(1)	(1)	123	49
BUTTERFISH	641	152	25	6	719	168
CARP	-	-	2	(1)	2	(1)
CATFISH	-	-	20	3	20	3
COD	3,031	331	243	27	52,651	5,649
CREVALLE	(1)	(1)	-	-	(1)	(1)
CUSK	2	(1)	-	-	1,351	101
EELS:						
COMMON	37	10	50	11	188	45
CONGER	10	2	-	-	10	2
FLOUNDERS:						
BLACKBACK	5,301	620	789	92	22,294	3,103
DAB	228	32	-	-	5,692	774
FLUKE	259	129	23	11	323	155
GRAY SOLE	502	74	2	(1)	5,977	925
LEMON SOLE	333	89	-	-	2,285	585
YELLOWTAIL	8,925	1,115	747	93	67,337	9,885
TOTAL FLOUNDERS	15,548	2,059	1,561	196	103,908	15,427
FRIGATE MACKEREL	25	2	-	-	25	2
HADDOCK	553	113	-	-	26,881	6,044
HAKE:						
RED	730	26	2	(1)	1,308	51
WHITE	151	8	(1)	(1)	4,061	250
HALIBUT	2	1	-	-	198	119
HERRING, SEA	2,219	46	4	(1)	66,262	1,161
KING WHITING OR "KINGFISH"	2	(1)	-	-	2	(1)
LAUNCE	-	-	-	-	35	7
MACKEREL:						
ATLANTIC	556	39	16	[illegible]	6,057	310
SPANISH	(1)	(1)	-	-	(1)	(1)
MENHADEN	9,396	130	125	[illegible]	10,506	136
MULLET, BLACK (LISA)	(1)	(1)	-	-	(1)	(1)
OCEAN PERCH	7	(1)	-	-	55,290	2,724
OCEAN POUT	(1)	(1)	-	-	(1)	(1)
POLLOCK	[illegible]	[illegible]	-	-	8,788	691
SALMON, ATLANTIC	-	-	-	-	(1)	(1)
SCUP OR PORGY	2,937	755	100	29	3,445	942
SEA BASS, BLACK	55	[illegible]	1	1	76	41
SEA ROBIN	129	[illegible]	9	(1)	138	2
SEA TROUT OR WEAKFISH, GRAY	21	4	1	(1)	[illegible]	4
SHAD	[illegible]	(1)	173	55	166	55
SHARKS:						
GRAYFISH	1	(1)	18	1	24	1
UNCLASSIFIED	1	(1)	1	(1)	5	(1)
TOTAL SHARKS	[illegible]	(1)	19	1	29	1
SKATES	4	(1)	10	(1)	166	8
SMELT	-	-	-	-	145	43
STRIPED BASS	84	25	-	-	1,443	378
STURGEON, COMMON	4	(1)	(1)	(1)	12	(1)
SWORDFISH	6	4	-	-	268	163
TAUTOG	53	3	14	1	107	6
THIMBLE-EYED MACKEREL	[illegible]	(1)	-	-	[illegible]	(1)
TILEFISH	79	17	-	-	96	19
TUNA:						
BLUEFIN	37	9	-	-	3,220	454
LITTLE	-	-	-	-	247	25
TOTAL TUNA	37	9	-	-	3,467	479
TURBOT	-	-	-	-	5	1
WHITE PERCH	43	6	7	[illegible]	50	10
WHITING	3,597	[illegible]	68	[illegible]	40,131	3,386
WOLFFISH	1	(1)	[illegible]	(1)	598	34
UNCLASSIFIED:						
FOR FOOD	[illegible]	4	104	1	6,878	728
FOR BAIT, REDUCTION, AND ANIMAL FOOD	30,047	228	423	12	51,609	601
TOTAL FISH	70,690	4,405	3,213	394	451,062	39,979

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	RHODE ISLAND		CONNECTICUT		TOTAL	
SHELLFISH ET AL.	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CRABS:						
BLUE, HARD.	-	-	(1)	(1)	(1)	(1)
GREEN	4	1	3	(1)	52	7
ROCK.	130	16	-	-	1,748	109
TOTAL CRABS	134	17	3	(1)	1,800	116
HORSESHOE CRABS	-	-	16	2	16	2
LOBSTERS, AMERICAN.	5,195	5,212	673	715	30,413	29,704
SHRIMP.	-	-	-	-	23,522	4,697
CLAMS:						
HARD:						
PUBLIC.	1,080	728	4	2	2,129	1,656
PRIVATE	-	-	279	217	499	461
OCEAN QUAHOG.	1,435	251	308	52	1,747	305
RAZOR	-	-	-	-	4	2
SOFT, PUBLIC.	87	57	-	-	6,535	3,472
SURF.	77	16	-	-	163	35
TOTAL CLAMS	2,679	1,052	591	271	11,077	5,931
CONCHS.	105	34	151	37	363	101
MUSSELS, SEA.	-	-	-	-	467	98
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	-	-	-	-	2	7
FALL.	7	9	(1)	(1)	11	20
PRIVATE:						
SPRING.	-	-	68	124	90	188
FALL.	-	-	57	104	87	188
TOTAL OYSTERS	7	9	125	228	190	403
PERIWINKLES AND COCKLES . .	-	-	-	-	40	10
SCALLOPS:						
BAY	-	-	-	-	1,101	1,704
SEA	25	34	(1)	(1)	4,467	6,028
TOTAL SCALLOPS.	25	34	(1)	(1)	5,568	7,732
SQUID	559	104	31	6	1,095	159
SEA URCHINS	-	-	-	-	60	4
IRISH MOSS.	-	-	-	-	3,898	117
BLOODWORMS.	-	-	-	-	845	1,216
SANDWORMS	-	-	-	-	856	764
TOTAL SHELLFISH ET AL.	8,704	6,462	1,590	1,259	80,210	51,054
GRAND TOTAL	79,394	10,867	4,803	1,653	531,272	91,033

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, OYSTERS, AND PERIWINKLES AND COCKLES ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

LANDINGS OF CERTAIN SHELLFISH, 1970

SPECIES	MAINE		MASSACHUSETTS		RHODE ISLAND	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:						
HARD:						
PUBLIC.	736	9,362	94,309	917,404	89,967	727,773
PRIVATE	-	-	20,000	244,000	-	-
OCEAN QUAHOG.	-	-	370	1,675	143,520	250,961
RAZOR	-	-	219	2,460	-	-
SOFT, PUBLIC.	350,573	2,497,362	91,446	917,951	6,677	56,440
SURF.	-	-	7,864	18,967	7,027	15,839
CONCHS.	-	-	7,160	30,005	6,973	34,425
MUSSELS, SEA.	20,073	64,431	16,620	34,045	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	-	-	385	6,830	-	-
FALL.	-	-	615	10,722	1,000	8,557
PRIVATE:						
SPRING.	-	-	3,462	64,200	-	-
FALL.	-	-	4,569	83,600	-	-
PERIWINKLES AND COCKLES . .	2,200	9,608	-	-	-	-
SCALLOPS:						
BAY	-	-	183,533	1,703,915	-	-
SEA	29,967	215,875	710,250	5,777,773	4,100	33,484

SPECIES	CONNECTICUT		TOTAL	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:				
HARD:				
PUBLIC.	292	1,502	185,304	1,656,041
PRIVATE	23,233	216,853	43,233	460,853
OCEAN QUAHOG.	30,820	51,553	174,710	304,189
RAZOR	-	-	219	2,460
SOFT, PUBLIC.	-	-	448,696	3,471,753
SURF.	-	-	14,891	34,806
CONCHS.	10,053	37,069	24,186	101,499
MUSSELS, SEA.	-	-	36,693	98,476
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	-	-	385	6,830
FALL.	26	300	1,641	19,579
PRIVATE:				
SPRING.	8,792	123,690	12,254	187,890
FALL.	7,454	103,750	12,023	187,350
PERIWINKLES AND COCKLES . .	-	-	2,200	9,608
SCALLOPS:				
BAY	-	-	183,533	1,703,915
SEA	17	130	744,334	6,027,262

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN SHELLFISH, 1970

SPECIES	MAINE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL			
CLAMS:				
HARD:				
PUBLIC.	11.00	11.00	12.00	12.00
PRIVATE	-	11.00	-	12.00
OCEAN QUAHOG.	-	10.00	10.00	10.00
RAZOR	-	16.00	-	-
SOFT, PUBLIC.	15.00	13.00	13.00	-
SURF.	-	11.00	11.00	-
CONCHS.	-	15.00	15.00	15.00
MUSSELS, SEA.	15.00	10.00	-	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	-	6.50	-	-
FALL.	-	6.50	7.00	7.70
PRIVATE:				
SPRING.	-	6.50	-	7.70
FALL.	-	6.50	-	7.70
PERIWINKLES AND COCKLES . .	18.00	-	-	-
SCALLOPS:				
BAY	-	6.00	-	-
SEA	6.00	6.00	6.00	6.00

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

NEW ENGLAND FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	MAINE		NEW HAMPSHIRE	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
ALEWIVES, SMOKED	POUNDS	13,700	1,944	-	-
COD:					
FILLETS:					
FRESH AND FROZEN	DO	157,010	64,944	-	-
BREADED, RAW OR COOKED, FROZEN	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (CRISPS, FISH AND CHIPS, ETC.)	DO	-	-	(1)	(1)
SALTED	DO	228,939	129,788	-	-
SMOKED	DO	(1)	(1)	-	-
CUSK FILLETS, FRESH AND FROZEN	DO	89,300	36,480	-	-
FLOUNDER:					
FILLETS:					
FRESH AND FROZEN	DO	148,600	83,650	-	-
BREADED, RAW AND COOKED, FROZEN.	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (DINNERS, IN SAUCE, ETC.)	DO	-	-	(1)	(1)
HADDOCK:					
FILLETS:					
FRESH AND FROZEN	DO	373,187	319,453	-	-
BREADED, RAW AND COOKED.	DO	-	-	(1)	(1)
SPECIALTIES:					
FROZEN (DINNERS, AU-GRATIN, ETC.)	DO	-	-	(1)	(1)
CANNED (FINNAN HADDIE AND ROE)	STANDARD CASES	(1)	(1)	-	-
SMOKED (INCLUDING FINNAN HADDIE)	POUNDS	(1)	(1)	-	-
HAKE:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	19,000	6,100	-	-
SALTED	DO	(1)	(1)	-	-
HERRING, SEA:					
CANNED:					
SARDINES	STANDARD CASES	806,501	11,226,817	-	-
FISH	DO	22,388	381,052	-	-
SPECIALTIES (SPREADS).	DO	(1)	(1)	-	-
SMOKED	POUNDS	(1)	(1)	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OIL.	1000 LBS	(1)	(1)	-	-
PEARL ESSENCE.	-	-	1,486,981	-	-
MACKEREL, ATLANTIC, CANNED NATURAL	STANDARD CASES	(1)	(1)	-	-
OCEAN PERCH, ATLANTIC:					
FILLETS:					
FRESH AND FROZEN	POUNDS	13,106,565	3,937,073	-	-
BREADED, RAW AND COOKED, FROZEN.	DO	(1)	(1)	(1)	(1)
SPECIALTIES (DINNERS, ETC.).	DO	-	-	(1)	(1)
POLLOCK:					
FILLETS, FRESH AND FROZEN.	DO	179,200	34,000	-	-
SALTED	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
SALMON, CANNED (SPREADS)	STANDARD CASES	(1)	(1)	-	-
SMELT, BREADED AND COOKED, FROZEN.	POUNDS	-	-	(1)	(1)
TUNA, CANNED (SPREADS)	STANDARD CASES	(1)	(1)	-	-
WHITING, FRESH AND FROZEN:					
HEADED AND DRESSED	POUNDS	4,889,079	1,056,462	-	-
FILLETS.	DO	344,684	102,554	-	-
CRABS, ROCK:					
FRESH AND FROZEN, COOKED MEAT.	DO	177,357	430,006	-	-
CANNED:					
REGULAR.	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (DEVILED, DIPS, AND SPREADS)	DO	(1)	(1)	-	-
LOBSTERS:					
AMERICAN:					
FRESH AND FROZEN:					
COOKED MEAT.	POUNDS	204,486	1,160,310	(3)	(3)
WHOLE.	DO	(1)	(1)	-	-
CANNED:					
REGULAR.	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (DEVILED, DIPS, NEWBURG, KNUCKLES, ETC.).	DO	(1)	(1)	-	-
SPINY, TAILS, RAW FROZEN	POUNDS	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	MAINE		NEW HAMPSHIRE	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS	POUNDS	559,053	268,327	-	-
COOKED WHOLE	DO	7,150,099	3,378,437	-	-
PEELED (INCLUDING DEVEINED):					
RAW	DO	2,637,797	2,837,693	-	-
COOKED	DO	701,763	904,313	-	-
BREADED, RAW AND COOKED	DO	(1)	(1)	-	-
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (DIPS)	DO	(1)	(1)	-	-
CLAMS:					
FRESH AND FROZEN, SHUCKED, SOFT	GALLONS	170,083	1,535,158	78,686	724,861
CANNED:					
WHOLE AND MINCED	STANDARD CASES	5,417	238,297	-	-
CHOWDER AND JUICE	DO	(1)	(1)	-	-
SPECIALTIES (DIPS, STEW, IN SHELL, ETC.)	DO	(1)	(1)	-	-
SCALLOPS, FRESH AND FROZEN, SEA, BREADED, RAW AND COOKED	POUNDS	-	-	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
STICKS, BREADED:					
RAW	DO	(1)	(1)	(1)	(1)
COOKED	DO	(1)	(1)	(1)	(1)
PORTIONS:					
RAW:					
NOT BREADED	DO	(1)	(1)	(1)	(1)
BREADED	DO	(1)	(1)	(1)	(1)
BREADED AND COOKED	DO	(1)	(1)	(1)	(1)
FISH AND SHELLFISH	DO	36,445,697	18,551,752	(3)	(3)
CANNED	STANDARD CASES	781,459	6,612,872	-	-
CURED	POUNDS	573,692	181,975	-	-
INDUSTRIAL	-	-	10,053,742	-	-
TOTAL	-	-	48,866,977	-	16,878,064

ITEM	UNIT	MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CHUBS, SMOKED	POUNDS	(1)	(1)	-	-
COD:					
FILLETS:					
FRESH AND FROZEN	DO	10,052,538	5,315,996	-	-
BREADED, RAW AND COOKED, FROZEN	DO	10,421,510	6,119,951	-	-
STEAKS, FROZEN	DO	(2)	(2)	-	-
SPECIALTIES:					
FROZEN (CRISPS, FISH AND CHIPS, ETC.)	DO	6,898,463	3,687,180	-	-
CANNED (CAKES AND SALTED)	STANDARD CASES	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
OIL, LIVER	1000 LBS	(1)	(1)	-	-
CUSK FILLETS, FRESH AND FROZEN	POUNDS	410,971	171,066	-	-
FLOUNDER:					
DRESSED, FROZEN	DO	(1)	(1)	-	-
FILLETS:					
FRESH AND FROZEN	DO	27,675,393	18,099,096	1,033,250	589,986
BREADED, RAW AND COOKED FROZEN	DO	4,007,403	2,633,754	-	-
STEAKS, FROZEN	DO	(2)	(2)	-	-
SPECIALTIES, FROZEN (DINNERS, IN SAUCE, ETC.)	DO	1,238,836	1,104,040	-	-
HADDOCK:					
FILLETS:					
FRESH AND FROZEN	DO	8,241,306	6,490,000	-	-
BREADED, RAW AND COOKED	DO	2,589,438	1,860,610	-	-
SPECIALTIES:					
FROZEN (DINNERS, AU-GRATIN, ETC.)	DO	748,785	418,819	-	-
CANNED (FINNAN HADDIE AND ROE)	STANDARD CASES	(1)	(1)	-	-
SMOKED (INCLUDING FINNAN HADDIE)	POUNDS	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
HAKE FILLETS AND STEAKS, FRESH AND FROZEN	POUNDS	146,562	48,346	-	-
HALIBUT:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	1,176,468	869,649	-	-
OIL, LIVER	1000 LBS	(1)	(1)	-	-
HERRING, SEA:					
FILLETS, FROZEN	POUNDS	(1)	(1)	-	-
SALTED	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OIL	1000 LBS	(1)	(1)	-	-
MACKEREL, ATLANTIC, SMOKED	POUNDS	(1)	(1)	-	-
MENHADEN:					
MEAL AND SCRAP	TONS	-	-	839	153,789
OIL	1000 LBS	-	-	668	64,685
SOLUBLES	TONS	-	-	300	15,343
OCEAN PERCH, ATLANTIC:					
FILLETS:					
FRESH AND FROZEN	POUNDS	2,901,519	985,143	-	-
BREADED, RAW AND COOKED, FROZEN	DO	6,496,398	3,142,525	-	-
SPECIALTIES (DINNERS, ETC.)	DO	(1)	(1)	-	-
POLLOCK:					
FILLETS:					
FRESH AND FROZEN	DO	3,543,942	1,223,343	-	-
BREADED, COOKED, FROZEN	DO	(1)	(1)	-	-
STEAKS, FRESH AND FROZEN	DO	(2)	(2)	-	-
CANNED (FLAKES)	STANDARD CASES	(1)	(1)	-	-
SMOKED	POUNDS	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	(1)	(1)	-	-
SALMON:					
FRESH AND FROZEN:					
STEAKS	DO	94,745	114,342	-	-
SPECIALTIES (PATTIES, BREADED, RAW AND COOKED)	DO	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-
SHAD FILLETS, FRESH (BONED)	DO	-	-	25,601	60,418
SMELT, BREADED AND COOKED, FROZEN	DO	132,650	56,740	-	-
SWORDFISH, FRESH AND FROZEN:					
STEAKS	DO	1,863,753	1,325,758	-	-
SPECIALTIES (WITH LEMON BUTTER SAUCE)	DO	(1)	(1)	-	-
OIL, LIVER	1000 LBS	(1)	(1)	-	-
TUNA:					
SPECIALTIES, FROZEN (WITH NOODLES)	POUNDS	(1)	(1)	-	-
OIL, LIVER	1000 LBS	(1)	(1)	-	-
WHITEFISH, SMOKED	POUNDS	(1)	(1)	-	-
WHITING, FRESH AND FROZEN:					
HEADED AND DRESSED	DO	10,735,441	2,735,125	-	-
FILLETS	DO	437,762	164,444	-	-
WOLFFISH:					
FILLETS:					
FRESH AND FROZEN	DO	138,464	54,318	-	-
BREADED RAW AND COOKED	DO	(1)	(1)	-	-
STEAKS, FROZEN	DO	(2)	(2)	-	-
CRABS:					
ROCK, FRESH AND FROZEN, COOKED MEAT	DO	(1)	(1)	-	-
BLUE, SPECIALTIES, FROZEN (CAKES, BREADED AND COOKED)	DO	(1)	(1)	-	-
KING, SPECIALTIES, FROZEN (CAKES, BREADED AND COOKED)	DO	(1)	(1)	-	-
LOBSTERS, AMERICAN:					
FRESH AND FROZEN COOKED MEAT	DO	[illegible]	[illegible]	54,209	305,465
CANNED SPECIALTIES (DEVILED, DIPS, NEWBURG, KNUCKLES, ETC.)	STANDARD CASES	-	-	(1)	(1)
SHRIMP, FRESH AND FROZEN:					
RAW HEADLESS	DO	(1)	(1)	-	-
COOKED WHOLE	DO	525,000	250,000	-	-
PEELED (INCLUDING DEVEINED):					
RAW	[illegible]	(1)	(1)	-	-
COOKED	[illegible]	6,912,000	12,775,000	-	-
BREADED, RAW AND COOKED	[illegible]	1,469,684	2,116,972	-	-
SPECIALTIES (COCKTAILS, CROQUETTES, PATTIES, SOUP, ETC.)	[illegible]	3,609,803	[illegible]	-	

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

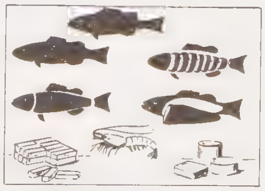
NEW ENGLAND FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	MASSACHUSETTS		RHODE ISLAND AND CONNECTICUT	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CLAMS:					
FRESH AND FROZEN:					
SHUCKED:					
HARD AND SURF (INCLUDES OCEAN QUAHOGS)	GALLONS	29,882	109,943	674,520	2,560,579
SOFT	DO	78,736	774,299	(1)	(1)
SPECIALTIES, FROZEN (STUFFED, CHOWDER, STRIPS, ETC.)	POUNDS	1,784,129	1,453,444	(1)	(1)
CANNED:					
WHOLE AND MINCED	STANDARD CASES	-	-	(1)	(1)
CHOWDER AND JUICE.	DO	(1)	(1)	(1)	(1)
SPECIALTIES (DIPS, STEW, IN SHELL, ETC.).	DO	-	-	(1)	(1)
CONCH MEATS,FROZEN	POUNDS	(1)	(1)	219,885	145,925
OYSTERS, FRESH AND FROZEN:					
SHUCKED.	GALLONS	-	-	(1)	(1)
SPECIALTIES (STEWS COOKED)	POUNDS	(1)	(1)	-	-
SCALLOPS, FRESH AND FROZEN:					
BAY SHUCKED.	GALLONS	128,679	1,751,223	-	-
SEA:					
SHUCKED.	POUNDS	(1)	(1)	-	-
BREADED, RAW OR COOKED	DO	2,197,385	3,435,391	(1)	(1)
SPECIALTIES (DINNERS AND IN SAUCE)	DO	(1)	(1)	-	-
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED:					
STICKS, BREADED:					
RAW.	DO	969,851	420,562	-	-
COOKED	DO	43,134,711	21,146,443	-	-
PORTIONS:					
RAW:					
NOT BREADED.	DO	1,286,946	621,994	-	-
BREADED.	DO	50,980,691	21,294,899	-	-
BREADED AND COOKED	DO	18,181,245	8,416,266	-	-
CAKES, BREADED, RAW AND COOKED . .	DO	6,466,155	2,571,681	-	-
DINNERS, BREADED, RAW AND COOKED .	DO	10,679,544	7,488,054	-	-
FISH AND SHELLFISH	DO	7,796,729	3,860,324	458,062	491,698
CANNED	STANDARD CASES	2,431,266	22,558,018	(1)	(1)
CURED.	POUNDS	827,000	1,361,230	-	-
INDUSTRIAL	-	-	1,463,563	-	520,820
TOTAL	-	-	175,798,957	-	4,908,708

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.
2/ THE PRODUCTION OF STEAKS HAS BEEN INCLUDED WITH THE FILLET PRODUCTION.
3/ THE PRODUCTION OF LOBSTER MEAT AND UNCLASSIFIED FISH AND SHELLFISH IN NEW HAMPSHIRE HAS BEEN INCLUDED WITH MAINE.

NOTE:--THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT. SOME OF THE PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.



SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	39,329
FROZEN	150,[illegible]30
CANNED	41,060
CURED	1,[illegible]75
INDUSTRIAL	13,759
TOTAL	246,453

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
MAINE	48,867
NEW HAMPSHIRE	16,878
MASSACHUSETTS	175,[illegible]
RHODE ISLAND	4,[illegible]
CONNECTICUT	223
TOTAL	246,453

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
MAINE	106	5,129	2,949	144	405	284	250	5,534	3,233
NEW HAMPSHIRE	10	425	385	3	12	11	13	437	396
MASSACHUSETTS	125	4,800	4,097	108	1,043	894	233	5,843	4,991
RHODE ISLAND	14	271	217	18	106	87	32	377	304
CONNECTICUT	4	26	21	5	19	15	9	45	36
TOTAL	259	10,651	7,669	278	1,585	1,291	537	12,236	8,960

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

NEW ENGLAND FISHERIES

MAINE

OPERATING UNITS BY GEAR, 1970

ITEM	STOP SEINES	PURSE SEINES, HERRING	BAG NETS	OTTER TRAWLS		WEIRS	FLOATING TRAPS
				FISH	SHRIMP		
	-NUMBER-						
FISHERMEN:							
ON VESSELS.	52	36	-	432	274	-	-
ON BOATS AND SHORE:							
REGULAR	18	17	2	85	493	57	3
CASUAL.	25	32	4	53	109	47	6
TOTAL	95	85	6	570	876	104	9
VESSELS, MOTOR.	13	9	-	139	124	-	-
GROSS TONNAGE	218	383	-	9,233	4,363	-	-
BOATS:							
MOTOR	26	25	3	69	298	52	3
OTHER	32	25	1	-	-	52	3
GEAR:							
NUMBER.	27	25	3	208	422	52	3
LENGTH, YARDS	11,400	8,750	-	-	-	-	-
YARDS AT MOUTH.	-	-	-	3,985	6,807	-	-

ITEM	POTS AND TRAPS			GILL NETS, ANCHOR, SET, OR STAKE	LINES		DIP NETS, COMMON
	LOBSTER	SHRIMP	BOX TRAPS		HAND	LONG OR SET WITH HOOKS	
	-NUMBER-						
FISHERMEN:							
ON VESSELS.	36	-	-	11	-	10	-
ON BOATS AND SHORE:							
REGULAR	3,542	4	2	2	82	42	-
CASUAL.	2,748	-	4	2	191	34	56
TOTAL	6,326	4	6	15	273	86	56
VESSELS, MOTOR.	35	-	-	4	-	2	-
GROSS TONNAGE	406	-	-	116	-	192	-
BOATS:							
MOTOR	6,289	4	3	2	75	38	-
OTHER	-	-	2	-	-	-	-
GEAR:							
NUMBER.	1,180,010	400	3	6	271	40	56
SQUARE YARDS.	-	-	-	50,120	-	-	-
HOOKS OR BAITS.	-	-	-	-	271	140,000	-

ITEM	HARPOONS	DREDGES, SCALLOP, SEA	RAKES	HOES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	-NUMBER-					
FISHERMEN:						
ON VESSELS.	-	-	-	-	-	578
ON BOATS AND SHORE:						
REGULAR	-	60	-	1,722	15	5,327
CASUAL.	30	46	332	2,212	32	5,206
TOTAL	30	106	332	3,934	47	11,111
VESSELS, MOTOR.	-	-	-	-	-	199
GROSS TONNAGE	-	-	-	-	-	10,640
BOATS:						
MOTOR	11	53	270	-	-	6,633
OTHER	-	-	-	-	-	114
GEAR:						
NUMBER.	11	53	332	3,934	-	-
YARDS AT MOUTH.	-	204	-	-	-	-

MAINE - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	STOP SEINES		PURSE SEINES, HERRING		BAG NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
HERRING, SEA.	4,896,600	112,343	29,781,200	494,772	-	-
SMELT	-	-	-	-	32,400	7,482
TOTAL	4,896,600	112,343	29,781,200	494,772	32,400	7,482

SPECIES	OTTER TRAWLS				WEIRS	
	FISH		SHRIMP			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	3,551,500	233,913	430,100	40,652	-	-
CUSK.	240,800	17,831	100	14	-	-
FLOUNDERS:						
BLACKBACK	298,200	21,007	-	-	-	-
DAB	670,600	58,526	50,700	5,593	-	-
GRAY SOLE	439,800	40,744	6,100	1,119	-	-
LEMON SOLE.	2,900	307	-	-	-	-
YELLOWTAIL.	155,100	13,317	-	-	-	-
HADDOCK	902,700	163,341	21,700	4,364	-	-
HAKE, WHITE	850,200	44,930	11,200	747		
HALIBUT	39,700	19,777	200	125	-	-
HERRING, SEA.	2,100	83	-	-	1,913,300	45,916
MACKEREL, ATLANTIC. . . .	13,000	747	-	-	102,500	5,299
OCEAN PERCH	46,687,900	2,273,951	400	20	-	-
POLLOCK	568,700	37,267	-	-	-	-
SHARKS, GRAYFISH.	600	27	-	-	-	-
SMELT	1,500	291	-	-	-	-
STURGEON, COMMON.	5,900	295	-	-	-	-
WHITING	14,835,400	1,184,053	2,000	140	-	-
WOLFFISH.	13,600	555	4,800	212	-	-
UNCLASSIFIED:						
FOR FOOD.	875,200	68,822	8,800	1,448	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD . . .	109,200	2,797	-	-	-	-
SHRIMP.	-	-	16,994,200	3,509,328	-	-
TOTAL	70,264,600	4,182,581	17,530,300	3,563,762	2,015,800	51,215

SPECIES	FLOATING TRAPS		POTS AND TRAPS			
			LOBSTER		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
MACKEREL, ATLANTIC. . . .	366,000	15,549	-	-	-	-
SALMON, ATLANTIC.	200	182	-	-	-	-
UNCLASSIFIED, FOR FOOD. .	800	20	-	-	-	-
CRABS, ROCK	-	-	1,571,200	89,651	-	-
LOBSTERS, AMERICAN. . . .	-	-	18,172,200	17,201,501	-	-
SHRIMP.	-	-	-	-	9,500	1,870
SQUID	100	7	-	-	-	-
TOTAL	367,100	15,758	19,743,400	17,291,152	9,500	1,870

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS, ANCHOR, SET OR STAKE	
	BOX TRAPS			
	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	893,400	56,465
CUSK.	-	-	3,600	225
EEL, COMMON	37,600	8,688	-	-
HADDOCK	-	-	33,800	6,234
HAKE, WHITE	-	-	194,400	9,214
HALIBUT	-	-	100	58
POLLOCK	-	-	201,200	9,877
SHARKS, GRAYFISH.	-	-	200	7
STURGEON, COMMON.	-	-	300	54
TOTAL	37,600	8,688	1,327,000	82,134

(CONTINUED ON NEXT PAGE)

MAINE - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES				DIP NETS, COMMON	
	HAND		LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	1,622,800	40,212
COD	367,400	15,984	184,200	9,901	-	-
CUSK	500	13	20,800	1,306	-	-
HADDOCK	3,600	503	51,100	9,687	-	-
HAKE, WHITE	7,100	230	348,100	19,792	-	-
HALIBUT	3,300	1,321	8,400	3,723	-	-
POLLOCK	26,900	1,498	14,300	732	-	-
SMELT	37,200	7,802	-	-	11,100	2,764
SWORDFISH	-	-	52,900	27,500	-	-
WOLFFISH	-	-	600	10	-	-
UNCLASSIFIED, FOR FOOD	-	-	600	28	-	-
SEA URCHINS	-	-	-	-	60,200	3,512
TOTAL	446,000	27,351	681,000	72,679	1,694,100	46,488

SPECIES	HARPOONS		DREDGES, SCALLOP, SEA		RAKES	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
TUNA, BLUEFIN	62,300	3,740	-	-	-	-
SCALLOPS, SEA	-	-	179,800	215,875	-	-
IRISH MOSS	-	-	-	-	2,537,500	76,125
TOTAL	62,300	3,740	179,800	215,875	2,537,500	76,125

SPECIES	HOES		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:				
HARD, PUBLIC	8,100	9,362	-	-
SOFT, PUBLIC	5,258,600	2,497,362	-	-
MUSSELS, SEA	301,100	64,431	-	-
PERIWINKLES	-	-	39,600	9,608
BLOODWORMS	845,400	1,215,772	-	-
SANDWORMS	747,000	621,474	-	-
TOTAL	7,160,200	4,408,401	39,600	9,608

LOBSTER POT

NEW ENGLAND FISHERIES

NEW HAMPSHIRE

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	BAG NETS	OTTER TRAWLS		WEIRS
			FISH	SHRIMP	
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	2	-	9	9	-
CASUAL	10	8	-	-	5
TOTAL	12	8	9	9	5
BOATS:					
MOTOR	3	-	3	3	1
OTHER	2	-	-	-	1
GEAR:					
NUMBER	4	6	3	3	4
LENGTH, YARDS	280	-	-	-	-
YARDS AT MOUTH	-	-	62	62	-

ITEM	POTS AND TRAPS		GILL NETS, ANCHOR, SET, OR STAKE	LINES	
	CRAB	LOBSTER		HAND	LONG OR SET WITH HOOKS
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	5	70	5	8	6
CASUAL	24	253	-	180	-
TOTAL	29	323	5	188	6
BOATS:					
MOTOR	18	230	2	2	3
OTHER	-	7	-	-	-
GEAR:					
NUMBER	468	17,800	2	425	3
SQUARE YARDS	-	-	10,000	-	-
HOOKS OR BAITS	-	-	-	1,275	6,500

ITEM	DIP NETS, COMMON	HARPOONS	SPEARS	HOES	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	-	2	-	1	70
CASUAL	20	16	14	21	455
TOTAL	20	18	14	22	525
BOATS:					
MOTOR	-	6	-	-	240
OTHER	-	-	-	-	10
GEAR, NUMBER	20	6	14	22	-

NEW HAMPSHIRE - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		BAG NETS		OTTER TRAWLS FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	-	-	27,000	3,105
FLOUNDERS:						
BLACKBACK	-	-	-	-	5,400	486
DAB	-	-	-	-	4,500	450
GRAY SOLE	-	-	-	-	2,500	325
YELLOWTAIL	-	-	-	-	43,000	4,730
HADDOCK	-	-	-	-	2,500	575
HAKE, WHITE	-	-	-	-	400	28
LAUNCE	18,000	3,600	-	-	-	-

(CONTINUED ON NEXT PAGE)

NEW HAMPSHIRE - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	HAUL SEINES, COMMON		BAG NETS		OTTER TRAWLS FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCEAN PERCH	-	-	-	-	8,000	200
SMELT	-	-	2,500	1,075	-	-
WHITING	-	-	-	-	18,000	1,260
WOLFFISH	-	-	-	-	300	21
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	4,000	440
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	5,000	100
TOTAL	18,000	3,600	2,500	1,075	120,600	11,720

SPECIES	OTTER TRAWLS - CONTINUED SHRIMP		WEIRS		POTS AND TRAPS CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	25,000	750	-	-
COD	15,000	1,725	-	-	-	-
EEL, COMMON	-	-	3,000	750	-	-
FLOUNDERS:						
BLACKBACK	2,500	225	-	-	-	-
DAB	1,600	160	-	-	-	-
GRAY SOLE	1,000	130	-	-	-	-
YELLOWTAIL	5,000	550	-	-	-	-
HADDOCK	500	115	-	-	-	-
HAKE, WHITE	200	14	-	-	-	-
SMELT	-	-	7,500	1,725	-	-
UNCLASSIFIED:						
FOR FOOD	2,000	220	-	-	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	1,500	30	-	-	-	-
CRABS, GREEN	-	-	-	-	40,500	4,950
SHRIMP	120,000	19,200	-	-	-	-
TOTAL	149,300	22,369	35,500	3,225	40,500	4,950

SPECIES	POTS AND TRAPS - CONTINUED LOBSTER		GILL NETS, ANCHOR, SET OR STAKE		LINES HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	120,000	13,500	12,000	1,500
HADDOCK	-	-	1,500	345	-	-
POLLOCK	-	-	2,500	175	400	28
SMELT	-	-	-	-	43,000	18,490
STRIPED BASS	-	-	-	-	14,000	2,520
STURGEON, COMMON	-	-	200	30	-	-
UNCLASSIFIED, FOR FOOD	-	-	1,500	150	-	-
CRABS, ROCK	20,000	1,200	-	-	-	-
LOBSTERS, AMERICAN	688,000	722,000	-	-	-	-
TOTAL	708,000	723,200	125,700	14,200	69,400	22,538

SPECIES	LINES - CONTINUED LONG OR SET WITH HOOKS		DIP NETS, COMMON		HARPOONS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	6,000	180	-	-
COD	15,000	1,875	-	-	-	-
CUSK	1,000	70	-	-	-	-
HADDOCK	2,500	588	-	-	-	-
HAKE, WHITE	300	21	-	-	-	-
HALIBUT	500	375	-	-	-	-
SMELT	-	-	5,000	1,150	-	-
TUNA, BLUEFIN	-	-	-	-	15,000	1,200
UNCLASSIFIED, FOR FOOD	500	50	-	-	-	-
TOTAL	19,800	2,979	11,000	1,330	15,000	1,200

SPECIES	SPEARS		HOES	
	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	2,500	625	-	-
SANDWORMS	-	-	15,000	15,000
TOTAL	2,500	625	15,000	15,000

NEW ENGLAND FISHERIES

MASSACHUSETTS

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES			OTTER TRAWLS	
		HERRING	MACKEREL	TUNA	FISH	LOBSTER
	NUMBER					
FISHERMEN:						
ON VESSELS	-	20	36	33	1,887	102
ON BOATS AND SHORE:						
REGULAR	-	-	4	-	14	-
CASUAL	7	-	-	-	-	-
TOTAL	7	20	40	33	1,901	102
VESSELS, MOTOR	-	2	4	3	343	16
GROSS TONNAGE	-	397	424	412	26,686	1,710
BOATS:						
MOTOR	1	2	4	3	7	-
OTHER	1	-	2	-	-	-
GEAR:						
NUMBER	3	2	5	3	350	16
LENGTH, YARDS	145	900	1,575	1,900	-	-
YARDS AT MOUTH	-	-	-	-	9,346	463

ITEM	OTTER TRAWLS-CONTINUED	POUND NETS, FISH	FLOATING TRAPS	POTS AND TRAPS		
	SHRIMP			CONCH	CRAB	EEL
	NUMBER					
FISHERMEN:						
ON VESSELS	253	5	3	2	-	-
ON BOATS AND SHORE:						
REGULAR	-	20	15	1	-	3
CASUAL	-	-	8	15	1	15
TOTAL	253	25	26	18	1	18
VESSELS, MOTOR	60	1	1	1	-	-
GROSS TONNAGE	3,034	7	12	14	-	-
BOATS:						
MOTOR	-	4	8	16	1	15
OTHER	-	5	9	-	-	-
GEAR:						
NUMBER	60	19	11	1,650	30	2[illegible]4
YARDS AT MOUTH	1,553	-	-	-	-	-

ITEM	POTS AND TRAPS-CONTINUED	GILL NETS		LINES		
	LOBSTER	ANCHOR, SET OR STAKE	DRIFT	HAND	TROLL	LONG OR SET WITH HOOKS
	NUMBER					
FISHERMEN:						
ON VESSELS	57	11	-	6	-	28
ON BOATS AND SHORE:						
REGULAR	591	28	-	117	-	142
CASUAL	686	7	22	1,584	18	40
TOTAL	1,334	46	22	1,707	18	210
VESSELS, MOTOR	7	3	-	3	-	9
GROSS TONNAGE	966	89	-	48	-	192
BOATS:						
MOTOR	1,074	14	11	721	6	88
OTHER	18	-	-	-	-	-
GEAR:						
NUMBER	138,646	17	134	1,901	18	97
SQUARE YARDS	-	88,400	75,040	-	-	-
HOOKS OR BAITS	-	-	-	3,242	18	256,070

ITEM	DIP NETS, COMMON	HARPOONS		SPEARS	DREDGES	
		SWORDFISH	OTHER		CLAM	MUSSEL
	NUMBER					
FISHERMEN:						
ON VESSELS	-	30	-	-	6	-
ON BOATS AND SHORE:						
REGULAR	9	2	4	22	10	14
CASUAL	161	22	58	40	2	5
TOTAL	170	54	62	62	18	19
VESSELS, MOTOR	-	8	-	-	3	-
GROSS TONNAGE	-	211	-	-	56	-

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - OPERATING UNITS BY GEAR, 1970 - Continued

ITEM	DIP NETS, COMMON	HARPOONS		SPEARS	DREDGES	
		SWORDFISH	OTHER		CLAM	MUSSEL
	NUMBER					
BOATS:						
MOTOR	157	9	24	1	7	11
OTHER	-	15	-	4	-	-
GEAR:						
NUMBER	169	17	24	62	10	14
YARDS AT MOUTH	-	-	-	-	8	13

ITEM	DREDGES - CONTINUED			TONGS		RAKES
	OYSTER, COMMON	SCALLOP		OYSTER	OTHER	OYSTER
		BAY	SEA			
	NUMBER					
FISHERMEN:						
ON VESSELS	-	-	314	-	-	-
ON BOATS AND SHORE:						
REGULAR	3	140	2	8	38	3
CASUAL	7	1,548	-	19	45	-
TOTAL	10	1,688	316	27	83	3
VESSELS, MOTOR	-	-	38	-	-	-
GROSS TONNAGE	-	-	3,556	-	-	-
BOATS:						
MOTOR	4	1,164	1	18	75	1
OTHER	-	-	-	2	-	2
GEAR:						
NUMBER	4	3,663	64	27	83	3
YARDS AT MOUTH	4	2,984	256	-	-	-

ITEM	RAKES - CONTINUED	HOES	FORKS	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLICATION
	OTHER				
	NUMBER				
FISHERMEN:					
ON VESSELS	-	-	-	-	2,318
ON BOATS AND SHORE:					
REGULAR	95	103	3	11	973
CASUAL	973	615	64	91	4,893
TOTAL	1,068	718	67	102	8,184
VESSELS, MOTOR	-	-	-	-	404
GROSS TONNAGE	-	-	-	-	31,392
BOATS:					
MOTOR	552	18	-	39	3,280
OTHER	30	-	-	2	86
GEAR, NUMBER	1,068	718	67	102	-

MASSACHUSETTS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			HERRING		MACKEREL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	100,000	2,375	813,600	10,577	-	-
COD	-	-	100	7	-	-
FLOUNDER, BLACKBACK	-	-	100	6	-	-
HERRING, SEA	-	-	10,657,500	163,164	-	-
LAUNCE	17,200	3,440	-	-	-	-
MACKEREL, ATLANTIC	-	-	-	-	1,958,800	43,778
MENHADEN	-	-	843,700	10,969	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	756,900	17,029	-	-
TOTAL	117,200	5,815	13,071,900	201,752	1,958,800	43,778

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	PURSE SEINES - CONTINUED		OTTER TRAWLS			
	TUNA		FISH		LOBSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	242,700	3,155	-	-
ANGLERFISH	-	-	128,500	7,174	-	-
BLUEFISH	-	-	20,300	2,108	-	-
BUTTERFISH	-	-	47,700	8,552	-	-
COD	-	-	35,279,300	4,053,355	300	37
CUSK	-	-	675,500	53,019	1,700	181
FLOUNDERS:					1,200	81
BLACKBACK	-	-	15,673,200	2,343,927	2,600	509
DAB	-	-	4,330,600	637,776	-	-
FLUKE	-	-	37,100	14,011	100	23
GRAY SOLE	-	-	4,625,900	748,873	700	102
LEMON SOLE	-	-	1,942,000	493,644	2,900	891
YELLOWTAIL	-	-	57,392,200	8,647,914	11,100	1,661
HADDOCK	-	-	23,517,500	5,317,936	2,300	474
HAKE:						
RED	-	-	465,500	19,933	-	-
WHITE	-	-	2,175,300	148,630	6,000	658
HALIBUT	-	-	76,500	41,892	100	50
HERRING, SEA	-	-	16,001,900	275,407	-	-
MACKEREL, ATLANTIC	-	-	645,800	36,514	-	-
OCEAN PERCH	-	-	7,896,300	418,748	-	-
POLLOCK	-	-	7,119,200	586,809	-	-
SCUP OR PORGY	-	-	370,700	140,229	-	-
SEA BASS	-	-	18,800	11,731	-	-
SHAD	-	-	900	50	-	-
SHARKS:						
GRAYFISH	-	-	700	27	-	-
UNCLASSIFIED	-	-	1,800	86	-	-
SKATES	-	-	126,800	6,764	-	-
STRIPED BASS	-	-	1,000	250	-	-
STURGEON, COMMON	-	-	900	64	-	-
TAUTOG	-	-	30,600	1,545	-	-
TILEFISH	-	-	17,100	1,899	-	-
TUNA:						
BLUEFIN	2,810,700	389,102	20,500	2,469	-	-
LITTLE	247,400	24,737	-	-	-	-
TURBOT	-	-	5,300	530	-	-
WHITE PERCH	-	-	1,000	43	-	-
WHITING	-	-	20,616,400	1,790,359	-	-
WOLFFISH	-	-	532,600	30,870	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	4,451,700	487,823	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	20,212,800	340,216	-	-
LOBSTERS, AMERICAN	-	-	397,200	356,077	1,039,500	983,526
SHRIMP	-	-	1,940,000	326,636	-	-
SCALLOPS, SEA	-	-	37,600	50,903	4,000	4,030
SQUID	-	-	332,900	34,583	-	-
TOTAL	3,058,100	413,839	227,410,300	27,442,531	1,072,500	992,223

SPECIES	OTTER TRAWLS - CONTINUED		POUND NETS, FISH		FLOATING TRAPS	
	SHRIMP					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANGLERFISH	3,400	155	-	-	-	-
BLUEFISH	-	-	19,700	2,134	-	-
BONITO	-	-	8,700	1,315	-	-
BUTTERFISH	-	-	5,000	1,181	-	-
COD	1,513,700	161,583	17,500	1,572	7,100	740
CUSK	26,000	1,696	-	-	-	-
FLOUNDERS:						
BLACKBACK	2,300	215	3,800	281	100	8
DAB	405,000	39,380	-	-	-	-
FLUKE	-	-	700	293	-	-
GRAY SOLE	394,600	59,201	-	-	-	-
YELLOWTAIL	12,100	1,454	-	-	-	-
HADDOCK	264,300	62,405	-	-	-	-
HAKE:						
RED	108,400	4,986	-	-	-	-
WHITE	130,100	7,415	-	-	-	-
HALIBUT	5,100	2,905	-	-	-	-
HERRING, SEA	104,400	2,397	661,700	20,016	20,800	681
MACKEREL, ATLANTIC	5,700	295	751,300	82,814	1,590,100	74,025
MENHADEN	-	-	105,800	1,768	30,900	479

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	OTTER TRAWLS - CONTINUED		POUND NETS, FISH		FLOATING TRAPS	
	SHRIMP					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCEAN PERCH	689,600	31,717	-	-	-	-
POLLOCK	129,600	11,211	46,600	520	22,200	479
SCUP OR PORGY	-	-	24,600	10,702	-	-
SEA BASS	-	-	400	254	-	-
SHAD	-	-	500	80	-	-
SHARKS, UNCLASSIFIED	-	-	-	-	200	5
SKATES	23,700	959	-	-	-	-
STRIPED BASS	-	-	91,700	31,648	18,100	4,160
TAUTOG	-	-	9,200	458	100	6
TUNA, BLUEFIN	-	-	91,000	26,294	-	-
WHITING	974,500	80,656	-	-	-	-
WOLFFISH	24,400	1,257	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	985,700	98,481	-	-	500	27
FOR BAIT, REDUCTION, AND ANIMAL FOOD	28,200	453	-	-	25,900	738
SHRIMP	4,458,400	840,360	-	-	-	-
SQUID	1,600	55	170,900	14,223	-	-
TOTAL	10,290,800	1,409,236	2,009,100	195,553	1,716,000	81,348

SPECIES	POTS AND TRAPS					
	CONCH		CRAB		EEL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	-	-	-	-	22,000	6,450
CRABS, GREEN	-	-	3,500	525	-	-
CONCHS	47,400	10,005	-	-	-	-
TOTAL	47,400	10,005	3,500	525	22,000	6,450

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS			
	LOBSTER		ANCHOR, SET, OR STAKE		DRIFT	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANGLERFISH	-	-	200	9	-	-
COD	-	-	1,548,800	169,327	1,800	218
CUSK	-	-	25,200	1,587	-	-
FLOUNDERS:						
BLACKBACK	-	-	135,000	14,353	-	-
DAB	-	-	200	23	-	-
YELLOWTAIL	-	-	4,800	475	-	-
HADDOCK	-	-	132,600	27,342	-	-
HAKE, WHITE	-	-	90,800	4,900	-	-
HALIBUT	-	-	1,100	613	-	-
MACKEREL, ATLANTIC	-	-	500	40	40,000	9,065
POLLOCK	-	-	438,700	29,354	-	-
SHARKS:						
GRAYFISH	-	-	1,800	75	-	-
UNCLASSIFIED	-	-	-	-	200	8
SKATES	-	-	400	21	-	-
STRIPED BASS	-	-	100	22	-	-
STURGEON, COMMON	-	-	700	89	-	-
TAUTOG	-	-	100	7	-	-
WHITING	-	-	100	7	-	-
WOLFFFISH	-	-	100	7	-	-
UNCLASSIFIED	-	-	301,500	33,192	-	-
CRABS, ROCK	27,000	1,890	-	-	-	-
LOBSTERS, AMERICAN	4,206,300	4,468,686	-	-	-	-
TOTAL	4,233,300	4,470,576	2,682,700	281,443	42,000	9,291

SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	129,100	17,655	-	-	-	-
COD	931,800	90,955	-	-	4,458,500	433,526
CUSK	900	56	-	-	353,100	25,232
EEL, COMMON	3,100	563	-	-	-	-

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS:						
BLACKBACK	2,400	256	-	-	57,000	5,700
DAB	-	-	-	-	900	150
FLUKE	2,900	1,174	-	-	-	-
GRAY SOLE	2,000	386	-	-	-	-
HADDOCK	3,400	980	-	-	1,386,700	335,219
HAKE:						
RED	-	-	-	-	1,700	141
WHITE	1,900	85	-	-	94,000	5,571
HALIBUT	400	387	-	-	60,600	47,522
MACKEREL, ATLANTIC	10,500	775	-	-	-	-
OCEAN PERCH	200	10	-	-	500	34
POLLOCK	56,300	3,084	-	-	129,000	9,005
SCUP OR PORGY	12,600	6,849	-	-	-	-
SEA BASS	1,000	459	-	-	-	-
SHARKS:						
GRAYFISH	-	-	-	-	1,800	55
UNCLASSIFIED	500	25	-	-	200	4
SKATES	-	-	-	-	1,300	79
SMELT	5,000	2,390	-	-	-	-
STRIPED BASS	1,231,000	313,219	-	-	2,100	531
SWORDFISH	1,500	1,145	-	-	-	-
TAUTOG	500	29	-	-	-	-
TUNA, BLUEFIN	98,800	13,852	4,000	360	-	-
WHITE PERCH	300	36	-	-	-	-
WOLFFISH	300	12	-	-	18,200	817
UNCLASSIFIED, FOR FOOD	37,200	5,585	-	-	66,600	6,977
TOTAL	2,533,600	459,967	4,000	360	6,632,200	870,563

SPECIES	DIP NETS, COMMON		HARPOONS			
			SWORDFISH		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SWORDFISH	-	-	207,800	129,379	-	-
TUNA, BLUEFIN	-	-	-	-	80,600	7,557
SCALLOPS, BAY	30,200	73,872	-	-	-	-
TOTAL	30,200	73,872	207,800	129,379	80,600	7,557

SPECIES	SPEARS		DREDGES			
			CLAM		MUSSEL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	31,400	6,776	-	-	-	-
CLAMS:						
HARD, PUBLIC	-	-	437,100	201,432	-	-
OCEAN QUAHOG	-	-	3,700	1,675	-	-
SURF	-	-	78,600	16,067	-	-
CONCHS	-	-	60,000	20,000	-	-
MUSSELS, SEA	-	-	-	-	139,200	28,578
TOTAL	31,400	6,776	579,400	239,174	139,200	28,578

SPECIES	DREDGES - CONTINUED					
	OYSTER, COMMON		SCALLOP			
			BAY		SEA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	-	-	800	65
FLOUNDERS:						
BLACKBACK	-	-	-	-	21,700	3,684
LEMON SOLE	-	-	-	-	3,900	1,206
YELLOWTAIL	-	-	-	-	41,300	7,357
HADDOCK	-	-	-	-	800	152
OYSTERS, MARKET:						
PUBLIC, SPRING	300	400	-	-	-	-
PRIVATE:						
SPRING	12,400	38,800	-	-	-	-
FALL	14,400	45,400	-	-	-	-
SCALLOPS:						
BAY	-	-	1,070,400	1,628,863	-	-
SEA	-	-	-	-	4,219,900	5,722,840
TOTAL	27,100	84,600	1,070,400	1,628,863	4,288,400	5,735,304

(CONTINUED ON NEXT PAGE)

MASSACHUSETTS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	TONGS				RAKES	
	OYSTER		OTHER		OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD:						
PUBLIC	-	-	40,700	32,573	-	-
PRIVATE	-	-	198,000	216,000	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	200	430	-	-	-	-
FALL	1,700	3,722	-	-	-	-
PRIVATE:						
SPRING	8,800	22,200	-	-	1,300	3,200
FALL	12,700	31,800	-	-	2,600	6,400
TOTAL	23,400	58,152	238,700	248,573	3,900	9,600

SPECIES	RAKES - CONTINUED		HOES	
	OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:				
HARD:				
PUBLIC	548,500	673,699	11,100	9,700
PRIVATE	22,000	28,000	-	-
RAZOR	1,300	650	2,200	1,810
SOFT, PUBLIC	23,600	22,843	1,165,200	895,108
SURF	-	-	7,900	2,900
MUSSELS, SEA	27,000	5,467	-	-
SCALLOPS, BAY	600	1,180	-	-
IRISH MOSS	1,360,000	40,800	-	-
BLOODWORMS	-	-	200	300
SANDWORMS	-	-	93,500	126,845
TOTAL	1,983,000	772,639	1,280,100	1,036,663

SPECIES	FORKS		DIVING OUTFITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
LOBSTERS, AMERICAN	-	-	42,200	44,656
OYSTERS, MARKET, PUBLIC:				
SPRING	2,000	6,000	-	-
FALL	2,300	7,000	-	-
TOTAL	4,300	13,000	42,200	44,656

NEW ENGLAND FISHERIES

RHODE ISLAND

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS		FLOATING TRAPS	POTS AND TRAPS
			FISH	LOBSTER		CONCH
			NUMBER			
FISHERMEN:						
ON VESSELS	-	10	293	185	105	4
ON BOATS AND SHORE:						
REGULAR	8	-	4	-	-	26
CASUAL	4	-	3	-	-	1
TOTAL	12	10	300	185	105	31
VESSELS, MOTOR	-	2	77	38	8	2
GROSS TONNAGE	-	88	4,174	3,268	224	25
BOATS:						
MOTOR	7	2	4	-	-	20
OTHER	-	2	-	-	21	-
GEAR:						
NUMBER	6	2	81	38	17	1,295
LENGTH, YARDS	643	560	-	-	-	-
YARDS AT MOUTH	-	-	2,165	1,118	-	-

ITEM	POTS AND TRAPS - CONTINUED			LINES		
	CRAB	EEL	LOBSTER	HAND	TROLL	LONG OR SET WITH HOOKS
			NUMBER			
FISHERMEN:						
ON VESSELS	-	-	32	8	4	-
ON BOATS AND SHORE:						
REGULAR	1	4	164	28	-	8
CASUAL	-	5	111	221	44	-
TOTAL	1	9	307	257	48	8
VESSELS, MOTOR	-	-	5	4	2	-
GROSS TONNAGE	-	-	396	57	37	-
BOATS, MOTOR	1	9	211	68	22	4
GEAR:						
NUMBER	130	257	30,257	289	48	4
HOOKS OR BAITS	-	-	-	353	48	3,240

ITEM	HARPOONS, SWORDFISH	SPEARS	DREDGES		TONGS	
			CLAM	SCALLOP, SEA	OYSTER	OTHER
			NUMBER			
FISHERMEN:						
ON VESSELS	19	-	69	35	-	-
ON BOATS AND SHORE:						
REGULAR	-	1	22	2	4	94
CASUAL	-	3	2	-	3	224
TOTAL	19	4	93	37	7	318
VESSELS, MOTOR	4	-	26	4	-	-
GROSS TONNAGE	230	-	578	317	-	-
BOATS:						
MOTOR	-	4	12	1	7	318
OTHER	4	-	-	-	-	-
GEAR:						
NUMBER	4	4	38	8	7	318
YARDS AT MOUTH	-	-	38	29	-	-

ITEM	RAKES	HOES	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLICATION
		NUMBER		
FISHERMEN:				
ON VESSELS	-	-	-	619
ON BOATS AND SHORE:				
REGULAR	186	13	1	394
CASUAL	447	57	2	880
TOTAL	633	70	3	1,893
VESSELS, MOTOR	-	-	-	136
GROSS TONNAGE	-	-	-	7,165
BOATS:				
MOTOR	633	-	2	951
OTHER	-	-	-	27
GEAR, NUMBER	633	70	3	-

RHODE ISLAND - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS	
					FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	102,200	2,670	-	-	17,600	158
ANGLERFISH	-	-	-	-	7,900	257
BLUEFISH	1,400	168	300	17	129,300	10,880
BONITO	-	-	-	-	200	36
BUTTERFISH	-	-	-	-	599,000	135,244
COD	-	-	-	-	2,912,900	315,537
CUSK	-	-	-	-	2,500	133
EELS:						
COMMON	-	-	-	-	100	12
CONGER	-	-	-	-	5,700	1,109
FLOUNDERS:						
BLACKBACK	-	-	-	-	5,285,900	618,362
DAB	-	-	-	-	227,500	31,480
FLUKE	-	-	-	-	233,500	115,127
GRAY SOLE	-	-	-	-	501,700	73,908
LEMON SOLE	-	-	-	-	332,600	88,767
YELLOWTAIL	-	-	-	-	8,924,200	1,114,345
HADDOCK	-	-	-	-	552,900	112,482
HAKE:						
RED	-	-	-	-	727,800	26,184
WHITE	-	-	-	-	151,300	8,246
HALIBUT	-	-	-	-	2,200	1,039
HERRING, SEA	-	-	-	-	2,217,000	45,308
KING WHITING OR "KINGFISH"	-	-	-	-	1,600	239
MACKEREL, ATLANTIC	-	-	-	-	139,700	8,595
MENHADEN	-	-	9,245,000	117,531	-	-
OCEAN PERCH	-	-	-	-	7,000	450
OCEAN POUT	-	-	-	-	200	14
POLLOCK	-	-	-	-	21,400	1,409
SCUP OR PORGY	-	-	-	-	739,700	221,298
SEA BASS	-	-	-	-	26,400	14,509
SEA TROUT OR WEAKFISH, GRAY	-	-	100	12	16,600	2,944
SHAD	-	-	-	-	10,100	236
SHARKS:						
GRAYFISH	-	-	-	-	1,100	46
UNCLASSIFIED	-	-	-	-	800	26
SKATES	-	-	-	-	1,300	82
STRIPED BASS	-	-	-	-	10,400	3,183
STURGEON, COMMON	-	-	-	-	2,900	320
TAUTOG	-	-	-	-	24,200	813
TILEFISH	-	-	-	-	79,100	17,268
TUNA, BLUEFIN	-	-	-	-	100	14
WHITE PERCH	42,000	8,097	-	-	-	-
WHITING	-	-	-	-	3,592,300	321,085
WOLFFISH	-	-	-	-	1,300	72
UNCLASSIFIED:						
FOR FOOD	100	8	100	25	32,500	4,143
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	29,902,500	226,779
LOBSTERS, AMERICAN	-	-	-	-	12,800	12,330
CONCHS	-	-	-	-	1,000	202
SCALLOPS, SEA	-	-	-	-	1,000	1,355
SQUID	-	-	-	-	497,600	90,461
TOTAL	145,700	10,943	9,245,500	117,585	57,955,400	3,626,487

SPECIES	OTTER TRAWLS - CONTINUED		FLOATING TRAPS		POTS AND TRAPS	
	LOBSTER				CONCH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	23,800	416	-	-
ANCHOVIES	-	-	11,400	1,589	-	-
BILLFISH	-	-	100	20	-	-
BLUEFISH	-	-	152,600	16,811	-	-
BONITO	-	-	113,700	47,380	-	-
BUTTERFISH	-	-	41,900	16,188	-	-
COD	-	-	61,000	8,083	-	-
CREVALLE	-	-	400	40	-	-
FLOUNDERS:						
BLACKBACK	-	-	500	60	-	-
FLUKE	-	-	25,300	13,396	-	-
FRIGATE MACKEREL	-	-	25,000	2,011	-	-
HAKE, RED	-	-	1,400	100	-	-
HERRING, SEA	-	-	1,700	214	-	-
KING WHITING OR "KINGFISH"	-	-	200	26	-	-

(CONTINUED ON NEXT PAGE)

RHODE ISLAND - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	OTTER TRAWLS - CONTINUED		FLOATING TRAPS		POTS AND TRAPS	
	LOBSTER				CONCH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
MACKEREL:						
ATLANTIC	-	-	416,100	30,340	-	-
SPANISH	-	-	200	42	-	-
MENHADEN	-	-	152,900	2,577	-	-
MULLET, BLACK (LISA)	-	-	300	48	-	-
POLLOCK	-	-	10,700	957	-	-
SCUP OR PORGY	-	-	2,197,400	534,077	-	-
SEA BASS	-	-	26,800	12,760	-	-
SEA ROBIN	-	-	128,500	2,249	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	4,600	928	-	-
SHAD	-	-	1,700	175	-	-
SHARKS:						
GRAYFISH	-	-	400	28	-	-
UNCLASSIFIED	-	-	300	20	-	-
SKATES	-	-	2,500	188	-	-
STRIPED BASS	-	-	18,600	6,839	-	-
STURGEON, COMMON	-	-	600	93	-	-
TAUTOG	-	-	20,200	1,646	-	-
THIMBLE-EYED MACKEREL	-	-	3,000	361	-	-
TUNA, BLUEFIN	-	-	24,500	7,364	-	-
WHITING	-	-	4,800	590	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	900	115	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	144,400	1,330	-	-
LOBSTERS, AMERICAN	3,561,800	3,520,151	-	-	-	-
CONCHS	-	-	-	-	98,700	32,888
SQUID	-	-	61,400	13,143	-	-
TOTAL	3,561,800	3,520,151	3,679,800	722,204	98,700	32,888

SPECIES	POTS AND TRAPS - CONTINUED					
	CRAB		EEL		LOBSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	-	-	33,600	9,325	-	-
CRABS:						
GREEN	4,000	600	-	-	-	-
ROCK	-	-	-	-	130,200	16,363
LOBSTERS, AMERICAN	-	-	-	-	1,620,800	1,679,506
CONCHS	-	-	-	-	1,600	330
TOTAL	4,000	600	33,600	9,325	1,752,600	1,696,199

SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	35,700	3,484	3,400	502	-	-
COD	37,400	4,579	-	-	19,800	2,553
EEL, CONGER	4,500	746	-	-	-	-
FLOUNDERS:						
BLACKBACK	13,900	1,459	-	-	-	-
FLUKE	300	133	-	-	-	-
HAKE, RED	500	19	-	-	-	-
MACKEREL, ATLANTIC	300	34	-	-	-	-
SEA BASS	1,400	1,095	-	-	-	-
STRIPED BASS	54,300	14,826	1,000	173	-	-
SWORDFISH	-	-	300	258	-	-
TAUTOG	7,800	791	-	-	-	-
TUNA, BLUEFIN	-	-	12,800	1,720	-	-
WHITE PERCH	100	22	-	-	-	-
UNCLASSIFIED, FOR FOOD	100	12	-	-	-	-
TOTAL	156,300	27,200	17,500	2,653	19,800	2,553

SPECIES	HARPOONS, SWORDFISH		SPEARS		DREDGES	
					CLAM	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	-	-	2,900	873	-	-
SWORDFISH	5,800	3,870	-	-	-	-
CLAMS:						
HARD, PUBLIC	-	-	-	-	105,900	42,984
OCEAN QUAHOG	-	-	-	-	1,435,200	250,961
SURF	-	-	-	-	77,300	15,839
CONCHS	-	-	-	-	2,100	608
TOTAL	5,800	3,870	2,900	873	1,620,500	310,392

(CONTINUED ON NEXT PAGE)

RHODE ISLAND - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	DREDGES - CONTINUED		TONGS			
	SCALLOP, SEA		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	200	17	-	-	-	-
FLOUNDERS:						
BLACKBACK	400	81	-	-	-	-
YELLOWTAIL	1,300	184	-	-	-	-
UNCLASSIFIED, FOR FOOD	100	11	-	-	-	-
CLAMS, HARD, PUBLIC	-	-	-	-	194,200	136,745
OYSTERS, MARKET, PUBLIC, FALL	-	-	7,000	8,557	-	-
SCALLOPS, SEA	23,600	32,129	-	-	-	-
TOTAL	25,600	32,422	7,000	8,557	194,200	136,745

SPECIES	RAKES		HOES		DIVING OUTFITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:						
HARD, PUBLIC	777,100	546,980	-	-	2,400	1,064
SOFT, PUBLIC	-	-	86,800	56,440	-	-
CONCHS	1,200	397	-	-	-	-
TOTAL	778,300	547,377	86,800	56,440	2,400	1,064

NEW ENGLAND FISHERIES

CONNECTICUT

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS			
				CONCH	CRAB	EEL	LOBSTER
	NUMBER						
FISHERMEN:							
ON VESSELS.	-	39	-	7	-	2	16
ON BOATS AND SHORE:							
REGULAR	7	21	-	19	2	6	105
CASUAL.	17	49	6	9	-	34	49
TOTAL	24	109	6	35	2	42	170
VESSELS, MOTOR.	-	17	-	4	-	1	9
GROSS TONNAGE	-	366	-	39	-	11	85
BOATS:							
MOTOR	14	51	3	23	1	33	135
OTHER	3	-	-	-	-	-	-
GEAR:							
NUMBER.	17	58	12	1,136	25	477	25,119
LENGTH, YARDS	574	-	-	-	-	-	-
YARDS AT MOUTH.	-	901	-	-	-	-	-

ITEM	GILL NETS			LINES, HAND	DIP NETS, COMMON
	ANCHOR, SET, OR STAKE	DRIFT			
		SHAD	OTHER		
	NUMBER				
FISHERMEN:					
ON VESSELS.	-	3	-	2	-
ON BOATS AND SHORE:					
REGULAR	-	9	14	8	1
CASUAL.	7	53	7	148	15
TOTAL	7	65	21	158	16
VESSELS, MOTOR.	-	1	-	1	-
GROSS TONNAGE	-	11	-	11	-
BOATS:					
MOTOR	-	24	15	113	-
OTHER	5	7	-	-	-
GEAR:					
NUMBER.	5	30	15	158	16
SQUARE YARDS.	954	59,426	3,558	-	-
HOOKS AND BAITS	-	-	-	187	-

ITEM	DREDGES		TONGS		TOTAL, EXCLUSIVE OF DUPLICATION
	CLAM	OYSTER, COMMON	OYSTER	OTHER	
	NUMBER				
FISHERMEN:					
ON VESSELS.	25	19	-	-	88
ON BOATS AND SHORE:					
REGULAR	3	-	1	-	121
CASUAL.	-	-	-	10	663
TOTAL	28	19	1	10	872
VESSELS, MOTOR.	9	8	-	-	37
GROSS TONNAGE	248	199	-	-	818
BOATS:					
MOTOR	1	-	1	10	599
OTHER	-	-	-	-	15
GEAR:					
NUMBER.	10	14	1	10	-
YARDS AT MOUTH.	10	20	-	-	-

CONNECTICUT - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS, FISH		FYKE AND HOOP NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	13,900	593	92,600	2,301	-	-
ANGLERFISH	-	-	200	6	-	-
BLUEFISH	200	22	4,600	491	-	-
BONITO	-	-	200	50	-	-
BUTTERFISH	-	-	25,300	5,530	-	-
CARP	1,000	161	-	-	1,200	125
CATFISH	-	-	-	-	19,500	3,080
COD	-	-	237,900	25,987	-	-
EEL, COMMON	500	130	-	-	100	25
FLOUNDERS:						
BLACKBACK	1,100	45	783,300	90,657	-	-
FLUKE	-	-	22,900	11,338	-	-
GRAY SOLE	-	-	2,200	323	-	-
YELLOWTAIL	-	-	746,600	93,325	-	-
HAKE:						
RED	-	-	1,900	68	-	-
WHITE	-	-	100	6	-	-
HERRING, SEA	-	-	4,200	116	-	-
MACKEREL, ATLANTIC	200	16	700	94	-	-
MENHADEN	-	-	100	3	-	-
SCUP OR PORGY	-	-	99,800	29,102	-	-
SEA BASS	-	-	1,300	622	-	-
SEA ROBIN	-	-	9,400	248	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	800	180	-	-
SHARKS:						
GRAYFISH	-	-	17,400	582	-	-
UNCLASSIFIED	-	-	200	6	-	-
SKATES	-	-	8,900	249	-	-
STURGEON, COMMON	-	-	500	63	-	-
TAUTOG	200	15	6,000	498	-	-
WHITE PERCH	3,300	716	-	-	4,200	856
WHITING	-	-	87,800	7,851	-	-
WOLFFISH	-	-	1,700	88	-	-
UNCLASSIFIED:						
FOR FOOD	4,100	910	47,100	7,116	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	6,500	187	401,100	11,031	-	-
HORSESHOE CRAB	-	-	15,900	2,383	-	-
LOBSTERS, AMERICAN	-	-	1,800	1,669	-	-
CONCHS	-	-	6,000	1,120	-	-
SCALLOPS, SEA	-	-	100	130	-	-
SQUID	-	-	31,200	5,641	-	-
TOTAL	31,000	2,795	2,659,800	298,874	25,000	4,086

SPECIES	POTS AND TRAPS					
	CONCH		CRAB		EEL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	-	-	-	-	48,500	10,714
CRABS, GREEN	-	-	2,500	248	-	-
CONCHS	127,000	31,745	-	-	-	-
TOTAL	127,000	31,745	2,500	248	48,500	10,714

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS			
	LOBSTER		ANCHOR, SET, OR STAKE		DRIFT	
					SHAD	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SHAD	-	-	2,400	772	170,700	54,599
LOBSTERS, AMERICAN	671,100	712,998	-	-	-	-
CONCHS	17,800	4,204	-	-	-	-
TOTAL	688,900	717,202	2,400	772	170,700	54,599

(CONTINUED ON NEXT PAGE)

CONNECTICUT - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS - CONTINUED DRIFT OTHER		LINES, HAND		DIP NETS, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	400	12	-	-	15,400	488
BLUEFISH	4,000	720	75,900	11,402	-	-
COD	-	-	5,100	636	-	-
EEL, COMMON	200	50	200	40	-	-
FLOUNDERS:						
BLACKBACK	-	-	4,500	708	-	-
FLUKE	-	-	100	50	-	-
HERRING, SEA	100	3	-	-	-	-
MACKEREL, ATLANTIC	1,500	275	13,300	2,011	-	-
MENHADEN	128,200	3,281	-	-	-	-
SCUP OR PORGY	-	-	200	88	-	-
SEA BASS	-	-	100	30	-	-
SHARKS:						
GRAYFISH	-	-	200	6	-	-
UNCLASSIFIED	-	-	800	40	-	-
SKATES	1,200	50	-	-	-	-
TAUTOG	300	30	7,100	603	-	-
UNCLASSIFIED:						
FOR FOOD	4,100	910	52,500	11,694	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	5,200	300	10,500	336	-	-
CRABS, BLUE, HARD	-	-	-	-	300	[illegible]
TOTAL	145,200	5,631	170,500	27,644	15,700	[illegible]

SPECIES	DREDGES				TONGS			
	CLAM		OYSTER, COMMON		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:								
HARD:								
PUBLIC	1,800	616	-	-	-	-	1,700	886
PRIVATE	278,800	216,853	-	-	-	-	-	-
OCEAN QUAHOG	308,200	51,553	-	-	-	-	-	-
OYSTERS, MARKET:								
PUBLIC, FALL	-	-	-	-	200	300	-	-
PRIVATE:								
SPRING	-	-	67,700	123,690	-	-	-	-
FALL	-	-	57,400	103,750	-	-	-	-
TOTAL	588,800	269,022	125,100	227,440	200	300	1,700	886

SECTION 3 - MIDDLE ATLANTIC FISHERIES

Commercial landings of fish and shellfish at ports in the Middle Atlantic States (New York, New Jersey, and Delaware) were 140.0 million pounds worth $29.9 million--an increase of 2.1 million pounds (2 percent) and $4.4 million (17 percent) compared with 1969. Major species landed in greater quantity than in 1969 were bluefin tuna, bluefish, flounders, lobsters, oysters, and surf clams. Important species that declined in volume were butterfish, menhaden, scup, striped bass, whiting, and sea scallop meats.

New Jersey led in volume with 97.5 million pounds (70 percent) followed by New York with 32.5 million (23 percent), and Delaware, 10.0 million pounds (7 percent). New York led in value of landings with $16.1 million (54 percent), New Jersey had $12.5 million (42 percent), and Delaware had $1.3 million (4 percent).

Fishermen and vessels. The Middle Atlantic States had 8,469 fishermen--35 less than in 1969. There were 455 vessels (5 net tons or more), 3,878 motor boats, and 143 other boats--a decline of 43 vessels and 82 other boats, but an increase of 228 motor boats compared with 1969.

Processed products. The value of processed seafood items in the four-State Middle Atlantic area (including Pennsylvania) was $139.5 million--an increase of $7.9 million compared with 1969. New York led with products valued at $55.7 million; followed by New Jersey with $34.8 million; Pennsylvania, $43.4 million; and Delaware, $5.6 million. There were 5,706 persons employed in 367 wholesaling and processing plants in the four States.

Surf clams. Landings of surf clam meats were a record 52.6 million pounds worth a record $6.1 million--an increase of 10.4 million pounds and $1.1 million compared with 1969. The harvest was 17 percent greater than the landings made in 1966, the former record year. Delaware landings increased sharply from 2.8 million pounds in 1969 to a record 8.7 million in 1970.

Fishing effort in the Middle Atlantic States has usually been directed to the remunerative offshore clam fishery. In 1970, however, the vessels fished primarily for the smaller inshore clams because of their abundance. Fishermen also found a better market for their clams than in previous years because packers received them more readily.

In 1970, a newly designed vessel entered the surf clam fishery. The vessel had facilities for shucking clams on board thereby eliminating the problems of availability of water used in shucking and disposal of sand waste.

Menhaden. Landings of 31.5 million pounds were 12.3 million less than in 1969, and the second smallest harvest on record. The only reduction plant that continued to function was operating on a limited basis. The large purse seiners were no longer used, and landings depended on the smaller local vessels that used purse seines and pound nets.

Flounders. Landings of 10.6 million pounds worth $1.6 million increased 22 percent in volume and 37 percent in value compared with 1969. New York with landings of 7.3 million pounds accounted for 69 percent of the total production. Yellowtail landings (5.8 million pounds) dominated the Middle Atlantic flounder production. Eighty-one percent of the yellowtail flounders were landed in New York, the rest were in New Jersey. Until 1969, few yellowtails were landed in New Jersey, but in that year and in 1970 landings increased sharply. A new market developed for yellowtail flounders, and a fillet plant in New Jersey took fish that weighed from 3/4 to 1-1/2 pounds. Fluke flounder landings (2.9 million pounds) were second in volume. New Jersey accounted for 69 percent of the fluke harvest; the rest were landed in New York. New York accounted for 92 percent of the 1.8-million-pound landings of blackback flounders. Small quantities of gray sole and lemon sole were also landed in New York and New Jersey.

MIDDLE ATLANTIC FISHERIES

Hard clams. Landings of 10.6 million pounds of hard clam meats worth a record $10.6 million increased 7 percent in volume and 11 percent in value compared with 1969. New York fishermen took 7.9 million pounds--75 percent of the total production. New Jersey landings of 2.6 million pounds were 14 percent more than in 1969. One reason for the improved harvest was the March opening of an area formerly closed to clammers. There was also a clam rehabilitation program that helped increase production. Beginning in August, a fisherman could lease 1.5 acres of bottom in unpolluted waters and then transfer 20 bushels of clams per day during a 3-day work week from a polluted area (designated by the State) to the leased area. Fishermen were not permitted to harvest the replanted clams until October.

Scup. Landings of 4.3 million pounds were 18 percent less than in 1969, and the smallest harvest since 1926. Landings have trended downward since the record 26.6-million-pound production of 1960; and in 1966, declined drastically to 8.4 million pounds--about one-half the yield of the previous year. Since that time, landings have dropped at an average annual rate of about 1 million pounds.

In 1970, the value of landings ($967,000) increased 3 percent compared with 1969. Because scup were scarce, the average exvessel value increased to 22 cents per pound--a gain of 4 cents.

Whiting. Landings of 4.3 million pounds worth $496,000 declined 27 percent in volume, but increased 3 percent in value compared with 1969. Landings declined for the third consecutive year. In January, the otter trawl fleet operating off the New Jersey coast set a 1-month landings' record of more than 1 million pounds, but during February and March landings decreased by 75 percent compared with February and March 1969. Fishermen received an average price of 11-1/2 cents per pound in 1970--compared with 8 cents per pound in 1969.

Lobsters. Landings were a record 3.5 million pounds worth a record $3.6 million--an increase of 22 percent in volume and 34 percent in value compared with 1969. The greater landings may have resulted, in part, because of increased use of lobster pots, especially in New Jersey. The average price per pound was $1.03--about 9 cents more than in 1969.

Tuna. Landings were a record 3.1 million pounds--the best harvest since the inception of the tuna purse seine fishery in 1963. Bluefin tuna landings in New Jersey were 99 percent of the total production. Most of the bluefin tuna catch was taken by three purse seine vessels operating off the New Jersey coast.

Bluefish. Landings of 2.7 million pounds were 48 percent greater than in 1969, and the best production since 1935. New York landings were 60 percent of the total harvest. The value ($274,000) reflected a slight decline from a 13-cent average price per pound in 1969 to 10 cents in 1970.

Sea trout. The 2.4-million-pound landings of sea trout increased 20 percent in volume compared with 1969, and were the best production since 1957. About 80 percent of the poundage was taken with otter trawls, but an appreciable quantity was taken incidentally by gill netters in the bluefish fishery.

Mackerel. Atlantic mackerel landings of 1.7 million pounds worth $92,000 increased 113 percent in volume and 67 percent in value compared with 1969. The New Jersey otter trawl production of 1.2 million pounds accounted for 92 percent of the mackerel landings in the State. The fish averaged three-quarters of a pound during the season. The average price per pound in the Middle Atlantic fishery declined from 7 cents in 1969 to 5-1/2 cents in 1970.

MIDDLE ATLANTIC FISHERIES

Striped bass. Landings were 1.6 million pounds worth $423,000--a decline of 14 percent in volume and 7 percent in value compared with 1969. New York with 1.3 million pounds accounted for 83 percent of the landings. Most of the New York landings were made by haul seines. New Jersey landings of 223,000 pounds were taken principally by otter trawls.

Butterfish. Landings of 1.5 million pounds worth $262,000 declined 39 percent in volume and 5 percent in value compared with 1969. Fishermen found that the fish were about as plentiful as usual but were considerably smaller than in previous years. Otter trawl fishermen were discouraged by the loss entailed in culling unmarketable small butterfish from the catch. Losses were sometimes as much as 50 percent per trip.

Oysters. Landings of 1.4 million pounds of oyster meats worth $1.8 million increased 7 percent in volume and 31 percent in value compared with 1969. Landings were the best in New York (520,000 pounds) since 1962 and in Delaware (216,000 pounds) since 1959. However, New Jersey landings (677,000 pounds) were the smallest since 1965. In New York, efforts made by the industry to grow seed and transplant it to areas for oyster growing began to show favorable results. Most of these oysters were sold on the market as half-shell trade and brought good prices to fishermen. In 1970, the average price per pound was $2.07. Delaware landings were more than four times the production of the previous year. Most of the oysters were taken from the Delaware Bay. In New Jersey, the sharp decline in landings resulted from high mortalities caused by borers and the MSX disease, unfavorable weather at times of peak demand, poor recovery of meats, and lack of shuckers at fish processing plants.

Hard blue crabs. Landings of 1.4 million pounds were worth $220,000--an increase of 20 percent in quantity and 52 percent in value compared with 1969. In 1970, the average price per pound was 16 cents--about 3 cents more than in 1969. The fishery is confined to New Jersey and Delaware. Delaware Bay is the principal area for hard blue crab production. In 1970, 92 percent of the landings were taken there by pot fishermen from both States.

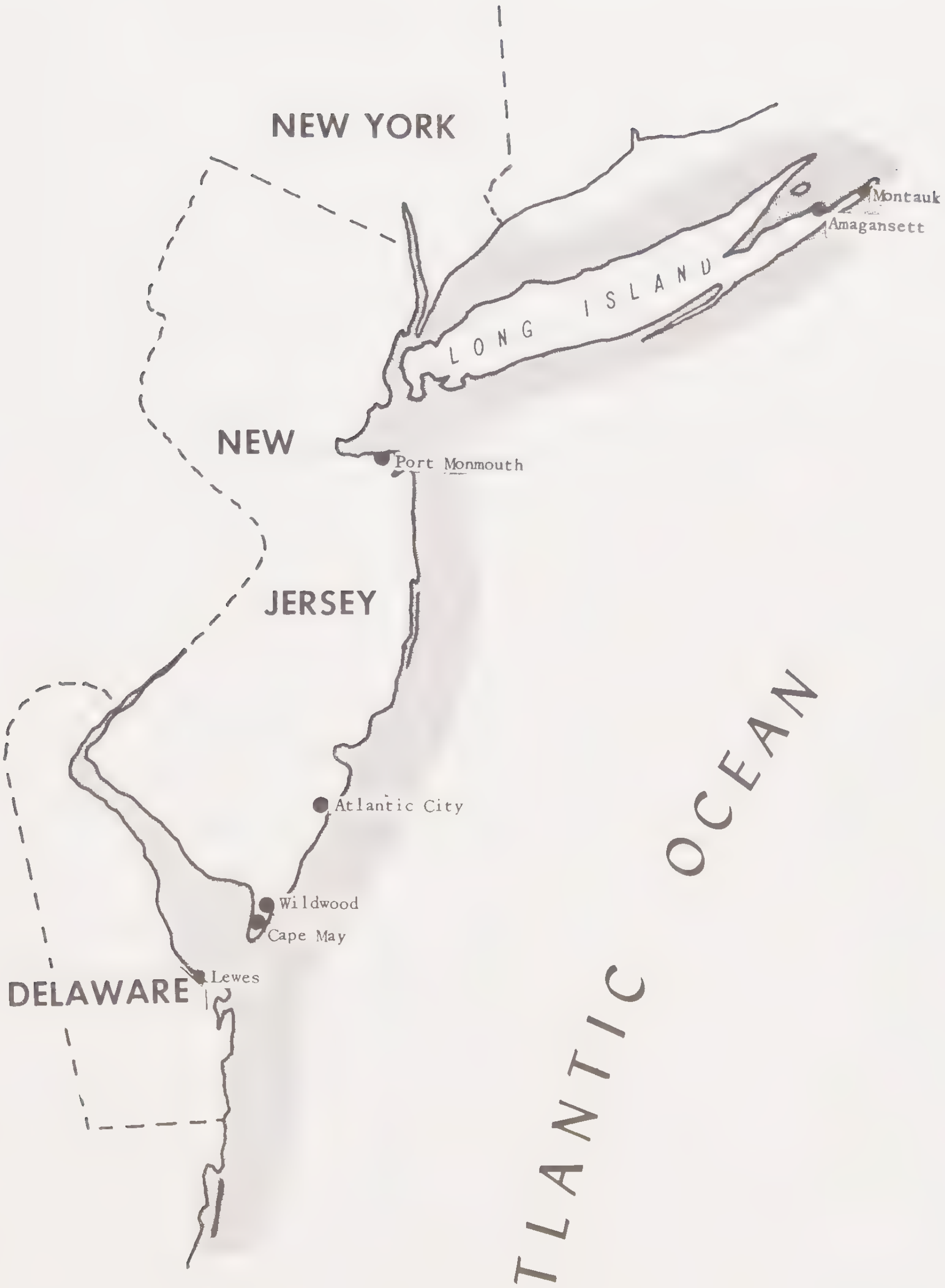
Sea scallops. Landings of 635,000 pounds of sea scallop meats worth $835,000 decreased 30 percent in volume and 15 percent in value compared with 1969. Landings were the smallest since 1944. Fishing effort declined as the available stock of sea scallops dwindled. Exvessel prices averaged $1.31 per pound--a gain of 23 cents per pound compared with 1969.

Bay scallops. Landings of 365,000 pounds of bay scallop meats worth $470,000 were 47 percent greater in quantity and 25 percent greater in value than in 1969. The bay scallop fishery is confined to New York. Most of the production came from bays on the eastern end of Long Island. An abundance of grass in Great South Bay made dredging difficult, and most fishermen left it to enter the high-priced hard clam fishery.

Other information. Additional data may be found in the New York and New Jersey monthly and annual landings bulletins published in the Current Fishery Statistics Series by the Statistics and Market News Division in cooperation with the respective States. Information on daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by NMFS's Fishery Market News Service in New York City.

Acknowledgments. The following organizations helped collect the data appearing in this section: New York Conservation Department, Marine Fisheries Division and Division of Fish and Game; New Jersey Conservation Department, Division of Fish and Game, and New Jersey Shellfish Commission; and State of Delaware Commission of Shellfisheries.

MIDDLE ATLANTIC FISHERIES


NEW YORK
LONG ISLAND
Montauk
Amagansett
NEW
JERSEY
Port Monmouth
Atlantic City
Wildwood
Cape May
Lewes
DELAWARE
ATLANTIC OCEAN

MIDDLE ATLANTIC STATES

MIDDLE ATLANTIC FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
NEW YORK	17	2	16	14	32	16
NEW JERSEY	51	4	46	9	98	13
DELAWARE	(1)	(1)	10	1	10	1
TOTAL	68	6	72	24	140	30

1/ LESS THAN 500,000 POUNDS OR $500,000.
NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	557	1,151	62	1,638
ON BOATS AND SHORE:				
REGULAR	1,664	594	77	2,335
CASUAL	3,052	960	484	4,496
TOTAL	5,273	2,705	623	8,469
VESSELS, MOTOR	193	272	13	455
GROSS TONNAGE	7,058	15,888	850	21,511
BOATS:				
MOTOR	2,515	1,139	224	3,878
OTHER	10	133	-	143
GEAR:				
HAUL SEINES, COMMON	29	11	1	41
LENGTH, YARDS	8,508	1,540	33	10,081
PURSE SEINES:				
MENHADEN	-	6	-	6
LENGTH, YARDS	-	2,175	-	2,175
TUNA	-	3	-	3
LENGTH, YARDS	-	2,200	-	2,200
OTTER TRAWLS:				
FISH	121	111	-	227
YARDS AT MOUTH	2,781	2,887	-	5,556
LOBSTER	21	52	-	72
YARDS AT MOUTH	613	1,481	-	2,067
WEIRS	-	5	-	5
POUND NETS, FISH	84	13	-	97
FYKE AND HOOP NETS:				
FISH	33	26	8	67
TURTLE	-	-	13	13
POTS AND TRAPS:				
CONCH	525	-	-	525
CRAB	-	4,271	2,050	6,321
EEL	1,037	1,617	145	2,799
FISH	-	7,125	-	7,125
LOBSTER	47,070	15,450	-	62,520
TURTLE	-	125	11	136
GILL NETS:				
ANCHOR, SET, OR STAKE	61	28	78	167
SQUARE YARDS	92,156	31,573	21,200	144,929
DRIFT:				
SHAD	26	10	-	36
SQUARE YARDS	83,965	20,077	-	104,042
OTHER	-	31	3	34
SQUARE YARDS	-	158,388	3,300	161,688
RUNAROUND	21	41	-	62
SQUARE YARDS	20,600	190,833	-	211,433
LINES:				
HAND	1,200	61	80	1,341
HOOKS	1,550	73	80	1,703
LONG OR SET WITH HOOKS	16	25	2	42
HOOKS	5,575	50,200	4,500	59,575
SPEARS	37	6	-	43
DREDGES:				
CLAM	38	93	7	130
YARDS AT MOUTH	41	114	13	152
OYSTER, COMMON	18	40	10	66
YARDS AT MOUTH	27	40	14	79

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
GEAR - CONTINUED:				
DREDGES - CONTINUED:				
SCALLOP:				
BAY	484	-	-	484
YARDS AT MOUTH	524	-	-	524
SEA	14	38	-	45
YARDS AT MOUTH	54	156	-	182
TONGS:				
OYSTER	-	107	-	107
OTHER	1,285	780	146	2,211
RAKES	2,390	591	260	3,241
HOES	-	32	-	32

LANDINGS BY STATES, 1970

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	11	1	8	(1)	-	-	19	1
AMBERJACK	-	-	1	(1)	-	-	1	(1)
ANGLERFISH	26	2	(1)	(1)	-	-	26	2
BLUEFISH	1,602	165	1,064	109	-	-	2,666	274
BONITO	15	2	1	(1)	-	-	16	2
BUTTERFISH	521	142	962	120	-	-	1,483	262
CARP	8	1	55	4	7	(1)	70	5
CATFISH AND BULLHEADS	4	1	10	1	1	(1)	15	2
COD	378	56	188	36	1	(1)	567	92
CROAKER	-	-	(1)	(1)	-	-	(1)	(1)
DRUM, BLACK	-	-	5	(1)	-	-	5	(1)
EELS:								
COMMON	138	36	210	50	58	12	406	98
CONGER	-	-	1	(1)	-	-	1	(1)
FLOUNDERS:								
BLACKBACK	1,692	109	146	10	3	(1)	1,841	119
FLUKE	900	358	1,958	686	-	-	2,858	1,044
GRAY SOLE	16	2	42	4	-	-	58	6
LEMON SOLE	37	4	7	2	-	-	44	6
YELLOWTAIL	4,688	379	1,090	73	-	-	5,778	452
TOTAL FLOUNDERS	7,333	852	3,243	775	3	(1)	10,579	1,627
GRUNTS	-	-	(1)	(1)	-	-	(1)	(1)
HADDOCK	7	1	1	(1)	-	-	8	1
HAKE:								
RED	283	20	610	32	-	-	893	52
WHITE	5	(1)	22	2	-	-	27	2
HERRING, SEA	62	4	406	9	-	-	468	13
KING WHITING OR "KINGFISH"	47	9	9	1	-	-	56	10
MACKEREL:								
ATLANTIC	368	31	1,313	61	-	-	1,681	92
SPANISH	-	-	(1)	(1)	-	-	(1)	(1)
MENHADEN	742	34	30,728	592	-	-	31,470	626
POLLOCK	2	(1)	1	(1)	-	-	3	(1)
SCUP OR PORGY	1,215	349	3,116	618	-	-	4,331	967
SEA BASS, BLACK	70	24	308	109	-	-	378	133
SEA ROBIN	75	4	-	-	-	-	75	4
SEA TROUT OR WEAKFISH, GRAY	296	61	1,961	148	147	31	2,404	240
SHAD	106	13	195	27	13	1	314	41
SHARKS:								
GRAYFISH	119	11	1	(1)	-	-	120	11
UNCLASSIFIED	2	(1)	(1)	(1)	-	-	2	(1)
TOTAL SHARKS	121	11	1	(1)	-	-	122	11
SILVERSIDES	93	19	-	-	-	-	93	19
SKATES	13	1	-	-	-	-	13	1
SNAPPER, RED	-	-	(1)	(1)	-	-	(1)	(1)
SPADEFISH	-	-	(1)	(1)	-	-	(1)	(1)
SPOT	-	-	(1)	(1)	-	-	(1)	(1)
STRIPED BASS	1,338	363	223	48	54	12	1,615	423
STURGEON, COMMON	14	2	13	2	-	-	27	4

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE

MIDDLE ATLANTIC FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SWELLFISH	196	16	1	(1)	-	-	197	16
SWORDFISH	18	10	-	-	-	-	18	10
TAUTOG	76	5	20	1	-	-	96	6
TILEFISH	7	1	22	4	-	-	29	5
TUNA:								
BLUEFIN	29	5	3,082	463	-	-	3,111	468
LITTLE	7	1	(1)	(1)	-	-	7	1
TOTAL TUNA	36	6	3,082	463	-	-	3,118	469
WHITE PERCH	166	31	77	14	16	3	259	48
WHITING	1,020	114	3,301	382	-	-	4,321	496
YELLOW PERCH	-	-	1	(1)	-	-	1	(1)
UNCLASSIFIED:								
FOR FOOD	196	20	11	1	-	-	207	21
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	26	1	-	-	26	1
TOTAL FISH	16,608	2,407	51,196	3,610	300	59	68,104	6,076
SHELLFISH ET AL.								
CRABS:								
BLUE:								
HARD	-	-	751	113	608	107	1,359	220
SOFT AND PEELER	-	-	33	8	2	1	35	9
ROCK	-	-	54	3	-	-	54	3
TOTAL CRABS	-	-	838	124	610	108	1,448	232
LOBSTERS, AMERICAN	1,647	1,847	1,836	1,739	-	-	3,483	3,586
CLAMS:								
HARD:								
PUBLIC	5,678	6,438	2,576	1,544	89	56	8,343	8,038
PRIVATE	2,228	2,539	-	-	-	-	2,228	2,539
RAZOR	5	2	-	-	-	-	5	2
SOFT, PUBLIC	73	28	70	36	-	-	143	64
SURF	4,182	490	39,669	4,685	8,734	935	52,585	6,110
TOTAL CLAMS	12,166	9,497	42,315	6,265	8,823	991	63,304	16,753
CONCHS	40	8	185	27	-	-	225	35
MUSSELS, SEA	200	60	-	-	-	-	200	60
OYSTERS, MARKET:								
PUBLIC:								
SPRING	5	6	17	20	-	-	22	26
FALL	1	(1)	13	13	-	-	14	13
PRIVATE:								
SPRING	141	308	113	100	3	2	257	410
FALL	373	760	534	424	213	131	1,120	1,315
TOTAL OYSTERS	520	1,074	677	557	216	133	1,413	1,764
SCALLOPS:								
BAY	365	470	-	-	-	-	365	470
SEA	534	703	101	132	-	-	635	835
TOTAL SCALLOPS	899	1,173	101	132	-	-	1,000	1,305
SQUID	404	51	352	43	-	-	756	94
TERRAPIN	-	-	1	(1)	-	-	1	(1)
TURTLES:								
LOGGERHEAD	-	-	(1)	(1)	-	-	(1)	(1)
SNAPPER	-	-	45	8	11	2	56	10
UNCLASSIFIED	-	-	1	(1)	-	-	1	(1)
TOTAL SHELLFISH ET AL.	15,876	13,710	46,351	8,895	9,660	1,234	71,887	23,839
GRAND TOTAL	32,484	16,117	97,547	12,505	9,960	1,293	139,991	29,915

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, MUSSELS, OYSTERS, AND PERIWINKLES AND COCKLES ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS ARE REPORTED IN WEIGHT OF EDIBLE MEATS.

MIDDLE ATLANTIC FISHERIES

LANDINGS OF CERTAIN SHELLFISH, 1970

SPECIES	NEW YORK		NEW JERSEY		DELAWARE		TOTAL	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:								
HARD:								
PUBLIC	473,142	6,437,811	257,570	1,544,058	11,088	55,810	741,800	8,037,679
PRIVATE	185,658	2,539,136	-	-	-	-	185,658	2,539,136
RAZOR	338	1,864	-	-	-	-	338	1,864
SOFT, PUBLIC	4,594	27,974	5,850	35,500	-	-	10,444	63,474
SURF	245,970	490,147	2,333,500	4,685,331	513,771	934,551	3,093,241	6,110,029
CONCHS	2,700	7,562	9,250	27,438	-	-	11,950	35,000
MUSSELS, SEA	20,010	59,579	-	-	-	-	20,010	59,579
OYSTERS, MARKET:								
PUBLIC:								
SPRING	653	6,251	2,867	19,884	-	-	3,520	26,135
FALL	80	370	2,200	13,200	-	-	2,280	13,570
PRIVATE:								
SPRING	18,747	308,221	15,051	100,290	508	2,000	34,306	410,511
FALL	49,747	760,028	96,402	423,474	32,723	130,884	178,872	1,314,386
SCALLOPS:								
BAY	60,817	470,063	-	-	-	-	60,817	470,063
SEA	88,983	702,507	16,850	131,977	-	-	105,833	834,484

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN SHELLFISH, 1970

SPECIES	NEW YORK	NEW JERSEY	DELAWARE
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL		
CLAMS:			
HARD:			
PUBLIC	12.00	10.00	8.00
PRIVATE	12.00	-	-
RAZOR	16.00	-	-
SOFT, PUBLIC	16.00	12.00	-
SURF	17.00	17.00	17.00
CONCHS	15.00	20.00	-
MUSSELS, SEA	10.00	-	-
OYSTERS, MARKET:			
PUBLIC:			
SPRING	7.50	6.00	-
FALL	7.50	6.00	-
PRIVATE:			
SPRING	7.50	7.50	6.50
FALL	7.50	5.50	6.50
SCALLOPS:			
BAY	6.00	-	-
SEA	6.00	6.00	-

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

MIDDLE ATLANTIC FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
ANCHOVY PASTE, CANNED. . . .	STANDARD CASES	(1)	(1)	-	-	-	-
BUFFALOFISH, SMOKED.	POUNDS	(1)	(1)	-	-	-	-
BUTTERFISH, SMOKED	DO	(1)	(1)	(1)	(1)	-	-
CARP, SMOKED	DO	73,000	66,700	-	-	-	-
CHUBS, SMOKED.	DO	2,840,000	2,746,500	(1)	(1)	(1)	(1)
COD:							
FILLETS AND STEAKS, FRESH.	DO	1,889,100	1,404,825	643,565	349,619	-	-
SPECIALTIES, CAKES:							
FROZEN, BREADED, RAW AND COOKED.	DO	(1)	(1)	-	-	762,934	239,879
CANNED	STANDARD CASES	-	-	(1)	(1)	-	-
SALTED	POUNDS	(1)	(1)	(1)	(1)	-	-
SMOKED	DO	(1)	(1)	-	-	-	-
EELS, SMOKED	DO	59,500	56,650	(1)	(1)	-	-
FLOUNDERS, FRESH AND FROZEN:							
FILLETS:							
RAW.	DO	2,827,790	2,522,195	302,415	252,674	-	-
BREADED AND COOKED . . .	DO	(1)	(1)	-	-	-	-
SPECIALTIES (BREADED, STUFFED).	DO	-	-	(1)	(1)	-	-
HADDOCK:							
FILLETS:							
FRESH.	DO	252,600	115,930	(2)	(2)	-	-
BREADED COOKED, FROZEN .	DO	(1)	(1)	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-	-	-
HAKE FILLETS, FRESH.	DO	10,600	5,080	-	-	-	-
HALIBUT, FROZEN:							
STEAKS, BREADED RAW. . . .	DO	(1)	(1)	-	-	-	-
SPECIALTIES, (AU GRATIN, COOKED)	DO	(1)	(1)	-	-	-	-
HERRING, SEA:							
SPECIALTIES, CURED AND REFRIGERATED (IN WINE AND CREAM SAUCE).	DO	(1)	(1)	-	-	-	-
SALTED	DO	(1)	(1)	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-	-	-
LUMPFISH CAVIAR, CANNED. . .	STANDARD CASES	(1)	(1)	-	-	-	-
MACKEREL, ATLANTIC:							
SALTED	POUNDS	-	-	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-	-	-
MENHADEN:							
MEAL AND SCRAP	TONS	-	-	(1)	(1)	-	-
OIL.	1000 LBS	-	-	(1)	(1)	-	-
SOLUBLES	TONS	-	-	(1)	(1)	-	-
OCEAN PERCH FILLETS, BREADED AND COOKED, FROZEN.	POUNDS	(1)	(1)	-	-	-	-
SABLEFISH, SMOKED.	DO	1,575,000	1,461,250	(1)	(1)	(1)	(1)
SALMON:							
CAVIAR, CANNED	STANDARD CASES	2,994	535,205	-	-	-	-
SMOKED	POUNDS	7,290,000	17,076,000	(1)	(1)	(1)	(1)
SHAD, SMOKED	DO	(1)	(1)	-	-	-	-
SHARK LEATHERS	-	-	-	-	(1)	-	-
STURGEON:							
CAVIAR, CANNED	STANDARD CASES	3,487	2,782,122	-	-	-	-
SMOKED	POUNDS	756,000	1,915,000	(1)	(1)	(1)	(1)
SWORDFISH STEAKS, BREADED RAW, FROZEN	DO	(1)	(1)	-	-	-	-
TUNA SPECIALTIES:							
FROZEN (CASSEROLES, PIES, AND CAKES).	DO	(1)	(1)	-	-	(1)	(1)
CANNED (WITH NOODLES). . .	STANDARD CASES	-	-	-	-	(1)	(1)
WHITEFISH:							
CANNED:							
FISH	DO	-	-	(1)	(1)	-	-
CAVIAR	DO	4,492	307,509	-	-	-	-
SMOKED	POUNDS	1,325,000	1,692,800	(1)	(1)	(1)	(1)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
WHITING, SMOKED.	POUNDS	415,000	202,500	23,500	14,525	-	-
CRAB SPECIALTIES:							
BLUE:							
FROZEN (CAKES, PATTIES, DEVILED, ETC.)	DO	(1)	(1)	(1)	(1)	(1)	(1)
CANNED (BISQUES AND NEWBURGS)	STANDARD CASES	-	-	(1)	(1)	-	-
KING (COCKTAILS, REFRIGERATED, FRESH).	POUNDS	(1)	(1)	-	-	-	-
LOBSTERS, AMERICAN:							
FRESH, COOKED MEAT . . .	DO	-	-	(1)	(1)	-	-
CANNED SPECIALTIES (SAUCES, BISQUES, CHOWDERS, ETC.)	STANDARD CASES	-	-	(1)	(1)	(1)	(1)
SHRIMP:							
FROZEN:							
COOKED MEAT, PEELED AND DEVEINED.	POUNDS	(1)	(1)	-	-	-	-
BREADED, RAW AND COOKED	DO	(1)	(1)	(1)	(1)	368,369	519,922
SPECIALTIES:							
FRESH, (COCKTAILS REFREIGERATED).	DO	(1)	(1)	-	-	(1)	(1)
FROZEN, (STUFFED, DINNERS, ETC.)	DO	(1)	(1)	(1)	(1)	-	-
CANNED (CREOLES, NEWBURGS, IN SAUCES, ETC.)	STANDARD CASES	-	-	(1)	(1)	-	-
CLAMS, HARD AND SURF:							
FRESH AND FROZEN:							
SHUCKED	GALLONS	1,169,605	4,938,115	2,334,652	6,837,305	9,400	58,025
SPECIALTIES:							
BREADED, RAW AND COOKED	POUNDS	-	-	(1)	(1)	(1)	(1)
OTHER (COCKTAILS, REFRIGERATED, JUICE, CROQUETTES, CAKES, STUFFED, ETC.).	DO	(1)	(1)	(1)	(1)	406,533	351,804
CANNED:							
MINCED.	STANDARD CASES	-	-	343,112	5,706,510	(1)	(1)
CHOWDER AND JUICE .	DO	(1)	(1)	498,507	4,103,568	(1)	(1)
SPECIALTIES, (SOUPS AND SAUCES).	DO	-	-	(1)	(1)	(1)	(1)
CONCH MEAT:							
FRESH AND FROZEN:							
NATURAL	POUNDS	(1)	(1)	(1)	(1)	-	-
IN TOMATO SAUCE . . .	DO	(1)	(1)	-	-	-	-
CANNED.	STANDARD CASES	(1)	(1)	(1)	(1)	-	-
MUSSELS, SEA:							
SPECIALTIES, FROZEN (IN HOT SAUCE)	POUNDS	-	-	(1)	(1)	-	-
CANNED (WHOLE AND BISQUE)	STANDARD CASES	(1)	(1)	(1)	(1)	-	-
BUTTONS	GROSS	-	-	(1)	(1)	-	-
OYSTERS:							
FRESH AND FROZEN:							
SHUCKED	GALLONS	-	-	83,781	754,029	55,215	612,803
BREADED, RAW AND COOKED	POUNDS	-	-	156,550	207,181	(1)	(1)
SPECIALTIES:							
FROZEN (PIES AND STUFFED ON HALF SHELL)	DO	(1)	(1)	-	-	(1)	(1)
CANNED (BISQUES AND SOUPS)	STANDARD CASES	-	-	(1)	(1)	-	-
SHELL GRIT.	TONS	-	-	-	-	(1)	(1)
SCALLOPS:							
BAY, FRESH, SHUCKED . .	GALLONS	52,230	835,680	-	-	-	-
SEA:							
BREADED, RAW AND COOKED, FROZEN . . .	POUNDS	(1)	(1)	(1)	(1)	(1)	(1)
SPECIALTIES:							
FROZEN (DINNERS). .	DO	(1)	(1)	-	-	-	-
CANNED (IN SAUCE) .	STANDARD CASES	-	-	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	NEW YORK		NEW JERSEY		PENNSYLVANIA AND DELAWARE	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
SQUID:							
FROZEN (IN TOMATO SAUCE).	POUNDS	(1)	(1)	-	-	-	-
CANNED (NATURAL) . . .	STANDARD CASES	(1)	(1)	(1)	(1)	-	-
TURTLE, CANNED (MEAT, CHOWDER, AND SOUP). . .	DO	-	-	(1)	(1)	-	-
UNCLASSIFIED:							
FRESH AND FROZEN, PACKAGED:							
STICKS, BREADED:							
RAW.	POUNDS	-	-	(1)	(1)	(1)	(1)
COOKED	DO	(1)	(1)	(1)	(1)	20,968,198	10,330,516
PORTIONS:							
RAW:							
NOT BREADED. . .	DO	-	-	(1)	(1)	1,971,938	866,467
BREADED.	DO	-	-	(1)	(1)	(1)	(1)
BREADED AND COOKED	DO	(1)	(1)	(1)	(1)	28,351,118	12,484,837
FISH AND SHELLFISH .	DO	13,173,317	12,026,542	5,368,932	5,702,345	19,585,173	13,996,817
CANNED:							
GEFILTEFISH.	STANDARD CASES	284,839	5,680,355	(2)	(2)	-	-
OTHER.	DO	254,918	3,018,805	233,325	4,056,144	769,699	9,528,677
CURED.	POUNDS	1,639,933	1,065,876	405,100	439,100	(1)	(1)
INDUSTRIAL	-	-	-	-	1,601,776	-	(1)
TOTAL	-	-	55,732,534	-	34,747,881	-	48,989,767

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

2/ THE PRODUCTION OF HADDOCK FILLETS, AND CANNED GEFILTEFISH PRODUCED IN NEW JERSEY HAS BEEN INCLUDED WITH NEW YORK.

NOTE:--THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT. SOME OF THE ABOVE PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH.	19,916
FROZEN	51,464
CANNED	35,719
CURED.	30,747
INDUSTRIAL	1,605
TOTAL.	139,471

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
NEW YORK	55,733
NEW JERSEY	34,748
PENNSYLVANIA	43,346
DELAWARE	5,644
TOTAL.	139,471

MIDDLE ATLANTIC FISHERIES

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
NEW YORK.	49	1,328	1,220	156	1,180	1,148	205	2,508	2,368
NEW JERSEY.	40	1,766	1,481	62	311	275	102	2,077	1,756
PENNSYLVANIA AND DELAWARE .	21	1,602	1,295	39	326	287	60	1,928	1,582
TOTAL.	110	4,696	3,996	257	1,817	1,710	367	6,513	5,706

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

MIDDLE ATLANTIC FISHERIES

NEW YORK

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS	
		FISH	LOBSTER			CONCH	EEL
	NUMBER						
FISHERMEN:							
ON VESSELS	2	273	78	13	-	2	-
ON BOATS AND SHORE:							
REGULAR	59	12	-	21	1	4	17
CASUAL	15	-	-	3	11	-	20
TOTAL	76	285	78	37	12	6	37
VESSELS, MOTOR	1	115	21	4	-	1	-
GROSS TONNAGE	12	3,904	1,816	50	-	32	-
BOATS:							
MOTOR	28	6	-	24	12	2	29
OTHER	-	-	-	2	-	-	8
GEAR:							
NUMBER	29	121	21	84	33	525	1,037
LENGTH, YARDS	8,508	-	-	-	-	-	-
YARDS AT MOUTH	-	2,781	613	-	-	-	-

ITEM	POTS AND TRAPS - CONTINUED	GILL NETS			LINES		SPEARS
	LOBSTER	ANCHOR, SET, OR STAKE	DRIFT, SHAD	RUNAROUND	HAND	LONG OR SET WITH HOOKS	
	NUMBER						
FISHERMEN:							
ON VESSELS	47	-	-	-	-	7	-
ON BOATS AND SHORE:							
REGULAR	138	15	-	6	150	4	8
CASUAL	190	32	42	27	1,010	8	29
TOTAL	375	47	42	33	1,160	19	37
VESSELS, MOTOR	25	-	-	-	-	2	-
GROSS TONNAGE	409	-	-	-	-	65	-
BOATS, MOTOR	266	40	26	21	590	12	37
GEAR:							
NUMBER	47,070	61	26	21	1,200	16	37
SQUARE YARDS	-	92,156	83,965	20,600	-	-	-
HOOKS OR BAITS	-	-	-	-	1,550	5,575	-

ITEM	DREDGES				TONGS	RAKES	TOTAL, EXCLUSIVE OF DUPLICATION
	CLAM	OYSTER, COMMON	SCALLOP				
			BAY	SEA			
	NUMBER						
FISHERMEN:							
ON VESSELS	90	48	-	81	-	-	557
ON BOATS AND SHORE:							
REGULAR	4	-	185	-	490	1,060	1,664
CASUAL	-	-	145	-	795	1,330	3,052
TOTAL	94	48	330	81	1,285	2,390	5,273
VESSELS, MOTOR	36	10	-	7	-	-	193
GROSS TONNAGE	1,093	419	-	1,014	-	-	7,058
BOATS:							
MOTOR	2	-	180	-	1,005	1,000	2,515
OTHER	-	-	-	-	-	-	10
GEAR:							
NUMBER	38	18	484	14	1,285	2,390	-
YARDS AT MOUTH	41	2	724	54	-	-	-

NEW YORK - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		LOBSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	1,500	150	1,600	64	-	-
ANGLERFISH	-	-	26,500	1,539	-	-
BLUEFISH	629,700	63,769	82,600	9,407	-	-
BONITO	5,100	608	600	75	-	-
BUTTERFISH	-	-	460,300	125,569	-	-
CARP	2,000	160	-	-	-	-
COD	-	-	239,500	35,517	-	-
FLOUNDERS:						
BLACKBACK	-	-	1,643,400	105,815	-	-
FLUKE	2,800	1,130	885,700	351,011	-	-
GRAY SOLE	-	-	16,100	2,141	-	-
LEMON SOLE	-	-	37,100	4,447	-	-
YELLOWTAIL	-	-	4,665,900	377,782	-	-
HADDOCK	-	-	6,600	1,146	-	-
HAKE:						
RED	-	-	282,800	20,438	-	-
WHITE	-	-	5,200	420	-	-
HERRING, SEA	-	-	49,700	3,339	-	-
KING WHITING OR "KINGFISH"	10,800	2,020	7,000	1,170	-	-
MACKEREL, ATLANTIC	9,500	802	25,000	2,210	-	-
MENHADEN	106,100	4,800	-	-	-	-
POLLOCK	-	-	1,500	180	-	-
SCUP OR PORGY	135,300	38,510	966,000	278,140	-	-
SEA BASS, BLACK	-	-	45,700	15,556	-	-
SEA ROBIN	-	-	39,400	2,210	-	-
SEA TROUT OR WEAKFISH, GRAY	87,600	18,029	64,900	13,371	-	-
SHAD	400	36	-	-	-	-
SHARKS:						
GRAYFISH	-	-	100,200	8,834	-	-
UNCLASSIFIED	400	43	1,700	160	-	-
SILVERSIDES	90,000	18,810	-	-	-	-
SKATES	-	-	12,300	858	-	-
STRIPED BASS	906,300	248,554	74,400	20,600	-	-
STURGEON, COMMON	1,500	245	11,200	1,826	-	-
SWELLFISH	-	-	133,600	10,760	-	-
TAUTOG	-	-	58,600	3,699	-	-
TILEFISH	-	-	7,000	738	-	-
TUNA, BLUEFIN	2,200	275	-	-	-	-
WHITE PERCH	153,600	28,825	-	-	-	-
WHITING	-	-	1,017,700	114,016	-	-
UNCLASSIFIED, FOR FOOD	3,300	330	160,600	16,060	-	-
LOBSTERS, AMERICAN	-	-	55,900	60,704	647,800	723,539
SQUID	-	-	379,300	48,223	-	-
TOTAL	2,148,100	427,096	11,565,600	1,638,025	647,800	723,539

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CONCH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	3,200	320	-	-
BLUEFISH	561,600	57,760	-	-	-	-
BONITO	8,900	1,054	-	-	-	-
BUTTERFISH	60,700	16,603	-	-	-	-
CARP	-	-	3,900	352	-	-
CATFISH AND BULLHEADS	-	-	2,100	355	-	-
COD	300	39	-	-	-	-
EEL, COMMON	100,900	26,220	-	-	-	-
FLOUNDERS:						
BLACKBACK	23,200	1,499	-	-	-	-
FLUKE	10,500	4,138	-	-	-	-
HERRING, SEA	12,400	873	-	-	-	-
KING WHITING OR "KINGFISH"	17,700	3,303	-	-	-	-
MACKEREL, ATLANTIC	290,400	24,416	-	-	-	-
MENHADEN	635,700	28,762	-	-	-	-
SCUP OR PORGY	83,300	23,746	-	-	-	-
SEA BASS, BLACK	1,500	533	-	-	-	-
SEA ROBIN	35,800	2,013	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	39,100	8,042	-	-	-	-
SHAD	9,400	796	-	-	-	-
SHARKS:						
GRAYFISH	17,300	1,575	-	-	-	-
UNCLASSIFIED	100	13	-	-	-	-

(CONTINUED ON NEXT PAGE)

NEW YORK - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CONCH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SILVERSIDES	2,900	725	-	-	-	-
SKATES	700	52	-	-	-	-
STRIPED BASS	38,300	10,518	-	-	-	-
SWELLFISH	62,200	5,007	-	-	-	-
TAUTOG	17,500	1,102	-	-	-	-
TUNA:						
BLUEFIN	1,500	256	-	-	-	-
LITTLE	6,100	588	-	-	-	-
WHITE PERCH	10,500	1,770	200	40	-	-
WHITING	1,800	206	-	-	-	-
UNCLASSIFIED, FOR FOOD	11,900	1,190	-	-	-	-
CONCHS	-	-	-	-	27,800	5,094
SQUID	25,200	3,204	-	-	-	-
TOTAL	2,087,400	226,003	9,400	1,067	27,800	5,094

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	EEL		LOBSTER		ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	4,700	470
BLUEFISH	-	-	-	-	43,000	4,425
CARP	-	-	-	-	1,000	100
EEL, COMMON	24,400	6,107	-	-	-	-
MACKEREL, ATLANTIC	-	-	-	-	7,400	622
SEA BASS, BLACK	-	-	22,900	8,146	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	-	-	22,600	4,654
SHAD	-	-	-	-	48,700	5,844
STRIPED BASS	-	-	-	-	69,900	14,945
STURGEON, COMMON	-	-	-	-	1,200	240
WHITE PERCH	-	-	-	-	1,200	310
UNCLASSIFIED, FOR FOOD	-	-	11,500	1,150	800	80
LOBSTERS, AMERICAN	-	-	943,600	1,062,644	-	-
TOTAL	24,400	6,107	978,000	1,071,940	200,500	31,690

SPECIES	GILL NETS - CONTINUED				LINES	
	DRIFT, SHAD		RUNAROUND		HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	139,600	15,398	145,200	14,399
CARP	700	56	-	-	-	-
CATFISH AND BULLHEADS	100	15	-	-	-	-
COD	-	-	-	-	56,300	8,319
FLOUNDER, FLUKE	-	-	200	92	-	-
KING WHITING OR "KINGFISH"	-	-	11,100	1,969	500	89
MACKEREL, ATLANTIC	-	-	8,800	751	27,000	2,600
SCUP OR PORGY	-	-	6,100	1,752	24,400	6,958
SEA TROUT OR WEAKFISH, GRAY	-	-	47,700	9,856	33,900	6,975
SHAD	47,200	6,332	-	-	-	-
STRIPED BASS	3,200	365	103,100	28,324	143,100	39,410
STURGEON, COMMON	600	120	-	-	-	-
SWORDFISH	-	-	-	-	300	165
TUNA:						
BLUEFIN	-	-	-	-	25,500	4,519
LITTLE	-	-	200	18	600	64
WHITE PERCH	-	-	300	58	-	-
UNCLASSIFIED, FOR FOOD	-	-	5,000	500	1,400	140
TOTAL	51,800	6,888	322,100	58,718	458,200	83,638

SPECIES	LINES - CONTINUED		SPEARS		DREDGES	
	LONG OR SET WITH HOOKS				CLAM	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	1,800	285	-	-	-	-
COD	82,300	12,160	-	-	-	-
EEL, COMMON	-	-	12,900	3,243	-	-
FLOUNDER, FLUKE	-	-	200	65	-	-
SHARKS, GRAYFISH	1,700	155	-	-	-	-

(CONTINUED ON NEXT PAGE)

NEW YORK - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES - CONTINUED		SPEARS		DREDGES	
	LONG OR SET WITH HOOKS				CLAM	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SWORDFISH	17,400	9,570	-	-	-	-
UNCLASSIFIED, FOR FOOD. . .	1,500	150	-	-	-	-
CLAMS:						
HARD, PRIVATE	-	-	-	-	2,227,900	2,539,136
SURF.	-	-	-	-	4,181,500	490,147
CONCHS.	-	-	-	-	2,900	546
TOTAL	104,700	22,320	13,100	3,308	6,412,300	3,029,829

SPECIES	DREDGES - CONTINUED					
	OYSTER, COMMON		SCALLOP			
			BAY		SEA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS:						
BLACKBACK	-	-	-	-	25,900	1,603
FLUKE	-	-	-	-	500	1,580
YELLOWTAIL.	-	-	-	-	22,000	1,602
CONCHS.	9,800	1,922	-	-	-	-
MUSSELS, SEA.	114,100	32,980	-	-	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING.	140,600	308,221	-	-	-	-
FALL.	373,100	760,028	-	-	-	-
SCALLOPS:						
BAY	-	-	364,900	470,063	-	-
SEA	-	-	-	-	533,900	702,507
TOTAL	637,600	1,103,151	364,900	470,063	582,300	707,292

SPECIES	TONGS		RAKES	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:				
HARD, PUBLIC.	2,029,900	2,293,680	3,647,800	4,144,131
RAZOR	-	-	5,400	1,864
SOFT, PUBLIC.	-	-	73,500	27,974
MUSSELS, SEA.	-	-	86,000	26,599
OYSTERS, MARKET, PUBLIC:				
SPRING.	-	-	4,900	6,251
FALL.	-	-	600	370
TOTAL	2,029,900	2,293,680	3,818,200	4,207,189

MIDDLE ATLANTIC FISHERIES

NEW JERSEY

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS		WEIRS	POUND NETS, FISH	FYKE AND HOOP NETS, FISH
		MENHADEN	TUNA	FISH	LOBSTER			
	- - - - - - - - -	- - - - - - - - -	- - - - -	NUMBER	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	- - - - -
FISHERMEN:								
ON VESSELS	-	53	32	362	211	-	5	1
ON BOATS AND SHORE:								
REGULAR	8	-	-	4	-	2	10	10
CASUAL	18	-	-	-	-	6	-	-
TOTAL	26	53	32	366	211	8	15	11
VESSELS, MOTOR	-	6	3	109	52	-	2	1
GROSS TONNAGE	-	377	412	5,563	3,659	-	17	[illegible]
BOATS:								
MOTOR	11	4	3	2	-	4	3	10
OTHER	-	2	-	-	-	4	-	-
GEAR:								
NUMBER	11	6	3	111	52	5	13	26
LENGTH, YARDS	1,540	2,175	2,200	-	-	-	-	-
YARDS AT MOUTH	-	-	-	2,587	1,481	-	-	-

ITEM	POTS AND TRAPS					GILL NETS		
	CRAB	EEL	FISH	LOBSTER	TURTLE	ANCHOR, SET, OR STAKE	DRIFT	
							SHAD	OTHER
	- - - - - - - - -	- - - - - - - - -	- - - - -	NUMBER	- - - - - - - - -	- - - - - - - - -	- - - - - - - - -	- - - - -
FISHERMEN:								
ON VESSELS	-	-	8	30	-	4	-	13
ON BOATS AND SHORE:								
REGULAR	54	22	10	29	-	19	9	27
CASUAL	25	14	2	4	10	26	12	20
TOTAL	79	36	20	63	10	49	21	60
VESSELS, MOTOR	-	-	4	17	-	2	-	6
GROSS TONNAGE	-	-	41	171	-	21	-	68
BOATS:								
MOTOR	79	36	7	28	7	21	11	25
OTHER	-	-	-	-	3	-	-	-
GEAR:								
NUMBER	4,271	1,617	7,125	15,450	125	28	10	31
SQUARE YARDS	-	-	-	-	-	31,573	20,077	158,388

ITEM	GILL NETS - CONTINUED	LINES		SPEARS	DREDGES		
	RUNAROUND	HAND	LONG OR SET WITH HOOKS		CLAM	OYSTER, COMMON	SCALLOP, SEA
	- - - - - - - - -	- - - - - - - - -	- - - - -	NUMBER	- - - - - - - - -	- - - - - - - - -	- - - - -
FISHERMEN:							
ON VESSELS	21	8	33	-	286	112	217
ON BOATS AND SHORE:							
REGULAR	31	2	14	1	8	15	-
CASUAL	28	38	8	5	-	-	-
TOTAL	80	48	55	6	294	127	217
VESSELS, MOTOR	10	4	13	-	83	15	20
GROSS TONNAGE	89	85	363	-	5,659	481	2,471
BOATS, MOTOR	31	32	11	6	4	9	-
GEAR:							
NUMBER	41	61	25	6	92	40	38
SQUARE YARDS	190,833	-	-	-	-	-	-
YARDS AT MOUTH	-	-	-	-	114	40	156
HOOKS OR BAITS	-	73	50,200	-	-	-	-

ITEM	TONGS		RAKES	HOES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER	OTHER				
	- - - - - - - - -	- - - - - - - - -	- - - - - NUMBER	- - - - - - - - -	- - - - - - - - -	- - - - -
FISHERMEN:						
ON VESSELS	-	-	-	-	-	1,151
ON BOATS AND SHORE:						
REGULAR	67	365	238	12	308	594
CASUAL	40	115	353	20	770	960
TOTAL	107	780	591	32	1,078	2,705
VESSELS, MOTOR	-	-	-	-	-	272
GROSS TONNAGE	-	-	-	-	-	15,888
BOATS:						
MOTOR	83	670	553	32	948	1,139
OTHER	-	80	25	-	119	133
GEAR, NUMBER	[illegible]	78	591	32	-	-

NEW JERSEY - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			MENHADEN		TUNA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	4,200	168	-	-	-	-
CARP	55,300	3,970	-	-	-	-
CATFISH AND BULLHEADS	2,300	302	-	-	-	-
FLOUNDERS, BLACKBACK	800	72	-	-	-	-
MENHADEN	-	-	28,964,400	537,603	-	-
SHAD	2,800	530	-	-	-	-
STRIPED BASS	4,700	1,442	-	-	-	-
TUNA, BLUEFIN	-	-	-	-	3,0[illegible],300	461,599
WHITE PERCH	24,800	4,898	-	-	-	-
YELLOW PERCH	1,400	238	-	-	-	-
TOTAL	96,300	11,620	28,964,400	537,603	3,0[illegible],300	461,599

SPECIES	OTTER TRAWLS				WEIRS	
	FISH		LOBSTER			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	1,200	36
ANGLERFISH	100	3	-	-	-	-
BLUEFISH	96,600	9,179	200	13	-	-
BONITO	200	21	-	-	-	-
BUTTERFISH	846,200	102,171	83,700	12,869	-	-
COD	37,000	6,579	3,200	430	-	-
CROAKER	200	30	-	-	-	-
DRUM, BLACK	600	45	-	-	-	-
EELS:						
COMMON	-	-	-	-	30,800	13,860
CONGER	-	-	200	10	-	-
FLOUNDERS:						
BLACKBACK	107,400	6,322	9,100	987	300	30
FLUKE	1,927,300	673,061	24,700	10,179	400	88
GRAY SOLE	15,600	1,260	25,900	2,771	-	-
LEMON SOLE	-	-	7,000	1,519	-	-
YELLOWTAIL	1,066,100	70,180	24,200	2,526	-	-
HADDOCK	-	-	600	66	-	-
HAKE:						
RED	559,400	30,591	600	18	-	-
WHITE	14,600	1,478	7,000	637	-	-
HERRING, SEA	369,500	7,626	-	-	-	-
KING WHITING OR "KINGFISH"	8,200	766	-	-	-	-
MACKEREL, ATLANTIC	1,194,400	54,684	11,300	674	-	-
MENHADEN	16,900	604	-	-	-	-
POLLOCK	900	74	-	-	-	-
SCUP OR PORGY	3,089,000	612,806	24,300	4,511	-	-
SEA BASS	53,000	14,449	2,100	610	-	-
SEA TROUT OR WEAKFISH, GRAY	1,871,700	132,056	-	-	-	-
SHAD	20,600	2,225	-	-	600	60
SHARKS, GRAYFISH	1,100	32	-	-	-	-
SPOT	200	12	-	-	-	-
STRIPED BASS	156,400	32,815	-	-	800	184
STURGEON, COMMON	11,600	2,039	-	-	-	-
SWELLFISH	900	43	-	-	-	-
TAUTOG	800	26	-	-	-	-
TILEFISH	3,500	636	16,600	2,852	-	-
TUNA, BLUEFIN	200	55	-	-	-	-
WHITE PERCH	300	19	-	-	3,200	480
WHITING	3,284,600	380,277	11,000	889	-	-
UNCLASSIFIED:						
FOR FOOD	5,400	384	1,200	158	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	24,900	1,107	1,200	72	-	-
CRABS, ROCK	4,500	208	49,100	2,364	-	-
LOBSTERS, AMERICAN	50,500	44,763	1,035,100	929,375	-	-
CONCHS	10,100	1,561	-	-	-	-
SQUID	342,300	42,067	9,800	1,305	-	-
TOTAL	15,192,800	2,232,254	1,348,100	974,835	37,300	14,[illegible]

(CONTINUED ON NEXT PAGE)

NEW JERSEY - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	300	12	-	-
AMBERJACK	900	36	-	-	-	-
BLUEFISH	140,700	17,388	-	-	-	-
BUTTERFISH	28,900	4,413	-	-	-	-
CATFISH AND BULLHEADS	-	-	8,200	984	-	-
DRUM, BLACK	200	10	-	-	-	-
EEL, COMMON	1,300	232	-	-	-	-
FLOUNDERS:						
BLACKBACK	300	27	28,100	2,810	-	-
FLUKE	4,400	2,046	-	-	-	-
HAKE, RED	6,100	275	-	-	-	-
HERRING, SEA	36,000	1,080	-	-	-	-
KING WHITING OR "KINGFISH"	500	39	-	-	-	-
MACKEREL:						
ATLANTIC	75,300	3,765	-	-	-	-
SPANISH	100	10	-	-	-	-
MENHADEN	1,559,800	46,794	-	-	-	-
SCUP OR PORGY	1,800	378	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	13,700	3,063	-	-	-	-
SHAD	19,200	1,755	-	-	-	-
STRIPED BASS	6,300	1,824	-	-	-	-
STURGEON, COMMON	1,800	279	-	-	-	-
TAUTOG	2,700	120	-	-	-	-
WHITE PERCH	600	66	18,700	2,805	-	-
WHITING	4,700	634	-	-	-	-
UNCLASSIFIED, FOR FOOD	200	11	-	-	-	-
CRABS, BLUE:						
HARD	400	60	-	-	750,900	112,632
SOFT AND PEELER	-	-	-	-	32,900	7,895
TURTLES, LOGGERHEAD	200	20	-	-	-	-
TOTAL	1,906,100	84,325	55,300	6,611	783,800	120,527

SPECIES	POTS AND TRAPS - CONTINUED					
	EEL		FISH		LOBSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	-	-	100	10
EELS:						
COMMON	175,500	35,100	-	-	-	-
CONGER	-	-	900	30	-	-
GRUNTS	-	-	200	10	-	-
HAKE, RED	-	-	32,000	943	11,400	571
SCUP OR PORGY	-	-	400	38	-	-
SEA BASS	-	-	237,500	88,751	15,300	5,007
TAUTOG	-	-	10,400	325	6,400	328
UNCLASSIFIED, FOR FOOD	-	-	2,800	95	300	15
LOBSTERS, AMERICAN	-	-	43,800	46,105	706,100	718,540
TOTAL	175,500	35,100	328,000	136,297	739,600	724,471

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS			
	TURTLE		ANCHOR, SET, OR STAKE		DRIFT	
					SHAD	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	700	15	-	-
BLUEFISH	-	-	-	-	1,100	231
MENHADEN	-	-	81,700	3,221	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	3,100	782	100	25
SHAD	-	-	144,400	21,385	6,200	807
STRIPED BASS	-	-	34,900	6,925	10,100	2,065
WHITE PERCH	-	-	8,100	1,137	16,300	3,260
TURTLES, SNAPPER	35,000	6,240	-	-	-	-
TOTAL	35,000	6,240	272,900	33,465	33,800	6,388

(CONTINUED ON NEXT PAGE)

NEW JERSEY - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS - CONTINUED				LINES	
	DRIFT - CONTINUED		RUNAROUND		HAND	
	OTHER					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	1,100	21	-	-	-	-
BLUEFISH	127,200	17,345	688,100	63,897	9,700	1,387
BONITO	100	22	600	186	200	15
BUTTERFISH	1,000	190	1,800	290	-	-
COD	-	-	-	-	500	83
DRUM, BLACK	3,900	281	-	-	-	-
FLOUNDER, FLUKE	-	-	-	-	100	38
KING WHITING OR "KINGFISH	-	-	200	24	-	-
MACKEREL:						
ATLANTIC	21,100	1,372	-	-	10,100	709
SPANISH	-	-	100	12	-	-
MENHADEN	87,600	3,348	17,400	691	-	-
SCUP OR PORGY	-	-	600	80	-	-
SEA BASS	-	-	-	-	200	30
SEA TROUT OR WEAKFISH, GRAY	11,000	1,381	60,500	10,688	1,100	227
SHAD	1,600	92	-	-	-	-
SHARKS:						
GRAYFISH	-	-	300	14	-	-
UNCLASSIFIED	-	-	200	9	-	-
STRIPED BASS	3,000	705	6,000	1,824	600	155
TILEFISH	-	-	-	-	1,500	300
TUNA:						
BLUEFIN	1,800	609	1,900	264	300	47
LITTLE	-	-	100	8	-	-
WHITE PERCH	600	124	2,700	428	3,000	464
WHITING	200	27	-	-	-	-
UNCLASSIFIED, FOR FOOD	300	45	600	71	200	21
TOTAL	260,500	25,562	781,300	78,486	27,500	3,476

SPECIES	LINES - CONTINUED		SPEARS		DREDGES	
	LONG OR SET WITH HOOKS				CLAM	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	147,700	28,850	-	-	-	-
EEL, COMMON	-	-	1,900	380	-	-
CLAMS:						
HARD, PUBLIC	-	-	-	-	154,400	92,240
SURF	-	-	-	-	39,669,500	4,685,331
CONCHS	-	-	-	-	174,200	25,768
TOTAL	147,700	28,850	1,900	380	39,998,100	4,803,339

SPECIES	DREDGES - CONTINUED				TONGS			
	OYSTER, COMMON		SCALLOP, SEA		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS:								
BLACKBACK	-	-	200	9	-	-	-	-
FLUKE	-	-	1,000	320	-	-	-	-
YELLOWTAIL	-	-	200	9	-	-	-	-
UNCLASSIFIED, FOR FOOD	-	-	100	15	-	-	-	-
LOBSTERS, AMERICAN	-	-	100	90	-	-	-	-
CLAMS, HARD, PUBLIC	-	-	-	-	-	-	829,700	497,662
CONCHS	-	-	100	19	-	-	-	-
OYSTERS, MARKET:								
PUBLIC:								
SPRING	-	-	-	-	17,200	19,884	-	-
FALL	-	-	-	-	13,200	13,200	-	-
PRIVATE:								
SPRING	110,400	96,027	-	-	2,900	4,263	-	-
FALL	531,200	419,841	-	-	2,300	3,633	-	-
SCALLOPS, SEA	-	-	101,100	131,977	-	-	-	-
TOTAL	641,600	515,868	102,800	132,439	35,600	40,980	829,700	497,662

(CONTINUED ON NEXT PAGE)

NEW JERSEY - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	RAKES		HOES		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:						
HARD, PUBLIC	705,200	422,638	-	-	886,400	531,518
SOFT, PUBLIC	-	-	34,800	17,800	35,400	17,700
CONCHS	-	-	-	-	600	90
TERRAPIN	900	378	-	-	-	-
TURTLES:						
SNAPPER	10,400	1,872	-	-	-	-
UNCLASSIFIED	600	30	-	-	-	-
TOTAL	717,100	424,918	34,800	17,800	922,400	549,308

DELAWARE

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS		POTS AND TRAPS		
		FISH	TURTLE	CRAB	EEL	TURTLE
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	-	1	-	17	2	-
CASUAL	2	4	3	12	7	2
TOTAL	2	5	3	29	9	2
BOATS, MOTOR	1	5	3	23	6	2
GEAR:						
NUMBER	1	8	13	2,050	145	11
LENGTH, YARDS	33	-	-	-	-	-

ITEM	GILL NETS		LINES		DREDGES	
	ANCHOR, SET, OR STAKE	DRIFT	HAND	LONG OR SET WITH HOOKS	CLAM	OYSTER, COMMON
	NUMBER					
FISHERMEN:						
ON VESSELS	-	-	-	2	25	35
ON BOATS AND SHORE:						
REGULAR	7	-	-	-	-	-
CASUAL	52	6	80	-	-	2
TOTAL	59	6	80	2	25	37
VESSELS, MOTOR	-	-	-	1	7	5
GROSS TONNAGE	-	-	-	11	665	174
BOATS, MOTOR	36	3	35	-	-	1
GEAR:						
NUMBER	78	3	80	2	7	10
SQUARE YARDS	21,200	3,300	-	-	-	-
YARDS AT MOUTH	-	-	-	-	13	14
HOOKS OR BAITS	-	-	80	4,500	-	-

ITEM	TONGS	RAKES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	-	-	-	62
ON BOATS AND SHORE:				
REGULAR	52	28	8	77
CASUAL	94	232	67	484
TOTAL	146	260	75	623
VESSELS, MOTOR	-	-	-	13
GROSS TONNAGE	-	-	-	850
BOATS, MOTOR	116	28	-	224
GEAR, NUMBER	146	260	-	-

DELAWARE - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS			
			FISH		TURTLE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS . . .	-	-	600	90	-	-
EEL, COMMON	6,000	987	-	-	-	-
FLOUNDER, BLACKBACK	-	-	2,800	336	-	-
TURTLES, SNAPPER.	-	-	-	-	4,700	946
TOTAL	6,000	987	3,400	426	4,700	946

SPECIES	POTS AND TRAPS					
	CRAB		EEL		TURTLE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EEL, COMMON	-	-	52,300	10,745	-	-
CRABS, BLUE:						
HARD.	608,200	106,803	-	-	-	-
SOFT AND PEELER	1,800	1,102	-	-	-	-
TURTLES, SNAPPER.	-	-	-	-	5,900	1,298
TOTAL	610,000	107,905	52,300	10,745	5,900	1,298

SPECIES	GILL NETS				LINES	
	ANCHOR, SET, OR STAKE		DRIFT		HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CARP.	7,400	370	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	18,600	5,831	106,000	19,080	22,500	6,075
SHAD.	13,400	1,407	-	-	-	-
STRIPED BASS.	43,100	9,338	5,000	1,000	6,000	1,440
WHITE PERCH	10,700	1,605	3,000	450	2,500	375
TOTAL	93,200	18,551	114,000	20,530	31,000	7,890

SPECIES	LINES - CONTINUED		DREDGES			
	LONG OR SET WITH HOOKS		CLAM		OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	700	98	-	-	-	-
CLAMS, SURF	-	-	8,734,100	934,551	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING.	-	-	-	-	3,300	2,000
FALL.	-	-	-	-	212,700	130,884
TOTAL	700	98	8,734,100	934,551	216,000	132,884

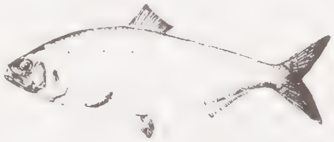
SPECIES	TONGS		RAKES		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	44,200	28,219	41,400	25,668	3,100	1,923
TOTAL	44,200	28,219	41,400	25,668	3,100	1,923

MIDDLE ATLANTIC FISHERIES

HUDSON RIVER SHAD FISHERY

The Hudson River run of shad yielded commercial landings of 62,000 fish weighing 231,571 pounds, worth $32,806 to the fishermen--a decline of 5 percent in volume, but an increase of 2 percent in value compared with 1969. Fishermen received an average price of 14 cents per pound--1 cent more than in 1969. In 1970, 65 fishermen participated in the Hudson River commercial shad fishery--a decline of 11 fishermen compared with the previous year.

Statistics on the 1970 operating units and landings of shad in the Hudson River by New York and New Jersey fishermen are included in the operating units and landings data for those States.



SUMMARY OF HUDSON RIVER OPERATING UNITS AND LANDINGS, 1970

ITEM	NEW YORK			NEW JERSEY			TOTAL		
OPERATING UNITS	NUMBER								
FISHERMEN, ON BOATS AND SHORE:									
REGULAR	5			2			7		
CASUAL	52			6			58		
TOTAL	57			8			65		
BOATS, MOTOR	30			2			32		
GEAR, GILL NETS:									
ANCHOR, SET, OR STAKE	29			2			31		
SQUARE YARDS	59,390			3,084			62,474		
DRIFT	26			-			26		
SQUARE YARDS	83,965			-			83,965		
LANDINGS	NUMBER	POUNDS	DOLLARS	NUMBER	POUNDS	DOLLARS	NUMBER	POUNDS	DOLLARS
SHAD, GILL NETS:									
ANCHOR, SET, OR STAKE	13,875	48,700	5,844	34,855	135,671	20,630	48,730	184,371	26,474
DRIFT	13,270	47,200	6,332	-	-	-	13,270	47,200	6,332
TOTAL	27,145	95,900	12,176	34,855	135,671	20,630	62,000	231,571	32,806

NOTE:--DATA REPRESENT LANDINGS IN THE HUDSON RIVER BETWEEN WEEHAWKEN, N.J., AND HUDSON, N.Y.

SECTION 4 - CHESAPEAKE FISHERIES

The commercial landings of fish and shellfish in the Chesapeake States (Maryland and Virginia) were a record 630.4 million pounds worth a record $40.5 million--an increase of 276.4 million pounds (78 percent) and $4.4 million (12 percent) compared with 1969. Record landings of menhaden were the principal reason for the greater harvest. In addition to menhaden, landings of the following major species increased significantly: hard blue crabs, surf clam meats, oyster meats, fluke flounders, gray sea trout, shad, and spot. Major species with smaller landings than in 1969 included sea scallop meats, hard and soft clam meats, alewives, striped bass, and swellfish.

Virginia landings of 550.6 million pounds worth $22.0 million were 87 percent of the volume and 54 percent of the value in the Chesapeake area. Menhaden accounted for 81 percent of the Virginia landings, followed by hard blue crabs (8 percent), and alewives (3 percent). Hard blue crabs were 31 percent of the Maryland landings; oysters, 21 percent; and surf clams, 17 percent.

Fishermen and vessels. There were 18,998 fishermen operating 1,566 vessels of 5 net tons or more, 11,638 motor boats, and 667 other boats. Compared with 1969, this was an increase of 1,854 fishermen, 47 vessels, 1,702 motor boats, and 45 other boats.

Processed products. The value of processed seafood items in the Chesapeake States was $100.4 million--an increase of $21.5 million compared with 1969. Maryland's processed products were valued at $58.2 million--58 percent of the area total. In Virginia, processed items were worth $42.2 million. There were 7,811 persons employed in 465 wholesaling and processing plants in the two States.

Menhaden. Record landings of 449.8 million pounds were 268.1 million more than in 1969, and 35.3 million pounds more than in 1959, the former record year. Purse seines accounted for 90 percent of the landings. Only 4 percent of the purse seine production was taken in the Atlantic Ocean; the rest came from the Chesapeake Bay.

During the last decade menhaden landings have declined sharply along the Atlantic coast. Virginia has been the only State landing them in appreciable quantities--except for a brief fall fishery in North Carolina waters and a small fishery off the New Jersey coast. Menhaden are used principally by reduction plants for processing into meal and oil. In 1970, 93 percent of the harvest was used for reduction. The rest was used chiefly as bait for hard crabs.

Blue crabs. Hard blue crab landings were 67.4 million pounds worth $4.5 million--a gain of 10.7 million pounds,but a decrease of $899,000 compared with 1969. Landings through the winter dredge season, spring, and early summer were good, and the exvessel prices remained firm at about $5 for a 100-pound barrel. Prices were restrained during the first half of the year by competition from crabs brought in from southern States and by fairly large inventories of unsold pasteurized crab meat.

During the latter part of the year crabs became less abundant because the fishermen began depending on the 1969 year class, which was not great. Virginia authorities lowered the legal size limit for hard crabs from 5 inches to 4-3/4 inches, measured from spike to spike. This change permitted the marketing of smaller crabs, but created difficulties when the crabs were shipped out of State, especially to Maryland where the size remained at 5 inches. Many Virginia truckers were fined in Maryland for possession of undersized crabs. Picked crab meat prices averaged less in the first 6 months of the year than during the comparable period of 1969. Backfin meat averaged about $1 less per pound, and regular meat averaged from 50 to 75 cents less per pound. During the last half of the year, however, crab meat prices were about the same as in 1969.

CHESAPEAKE FISHERIES

Wholesale crab meat prices
f.o.b. Hampton, Va., 1970

Month	Backfin lump	Regular	Claw
	- - - - - - -Dollars per pound- - - - - -		
January	2.40-2.50	1.35-1.45	1.25-1.35
February.	2.40-2.50	1.40-1.50	1.25-1.30
March	2.30-2.45	1.30-1.40	1.15-1.25
April	2.30-2.40	1.30-1.40	1.15-1.25
May	2.35-2.50	1.40-1.50	1.30-1.40
June.	2.40-2.60	1.35-1.45	1.25-1.40
July.	2.35-2.60	1.35-1.45	1.25-1.35
August.	2.35-2.60	1.35-1.45	1.25-1.30
September	2.45-2.65	1.40-1.45	1.25-1.35
October	2.45-2.75	1.40-1.45	1.25-1.35
November.	2.50-2.75	1.40-1.50	1.30-1.40
December.	2.60-2.75	1.40-1.50	1.30-1.40

Source:--NMFS Market News Service, Hampton, Va.

Soft and peeler blue crab landings were 2.5 million pounds worth $1.0 million--a decline of 41 percent in volume and 38 percent in value compared with 1969. The smaller harvest was probably caused by poor recruitment from the 1969 year class and excessive mortalities in the shedding floats during the summer.

Oysters. Landings of 24.7 million pounds of meats worth $15.1 million were 2.5 million pounds and $1.1 million more than in 1969. The Chesapeake States produced 46 percent of the total U.S. oyster landings. Maryland led the nation with an oyster production of 16.6 million pounds. In 1970, the yield of meats tended to increase in the area; Virginia oysters averaged almost 7 pints per Virginia bushel and Maryland oysters averaged 6-1/2 to 8 pints per Maryland bushel. In 1969, the yield averaged about 5-1/2 to 6-1/2 pints per Virginia or Maryland bushel. Exvessel prices were slightly less than in 1969. The production of seed oysters in Virginia was 36 percent greater than in 1969.

Wholesale shucked oyster prices
f.o.b. Hampton, Va., 1970

Month	Standards 1/	Selects 2/
	- - - -Dollars per gallon- - - -	
January.	8.50	9.50
February	8.50	9.50
March.	8.00-8.50	9.00-9.50
April.	8.00-8.50	9.00-9.50
May.	8.00-8.50	9.00-9.50
June	8.00-8.50	9.00-9.50
July	8.50	9.50
August	8.50	9.50
September. . . .	8.25-8.50	9.25-9.50
October.	8.25-8.50	9.25-9.50
November	8.25-8.50	9.25-9.50
December	8.25-8.50	9.25-9.50

1/ About 300 to 500 oysters a gallon.

2/ About 210 to 300 oysters a gallon.

Source:--NMFS Market News Service, Hampton, Va.

CHESAPEAKE FISHERIES

Alewives. Landings of 21.1 million pounds were 12.8 million (38 percent) less than in 1969, and the smallest production since 1961. The decline in landings followed a delayed spring migration caused by cool weather. When the fish finally appeared, they were in small schools and therefore not captured as readily as their usual full schools. The smaller or broken schools may have been caused by foreign vessels that were fishing herring offshore from the mouth of Chesapeake Bay.

Surf clams. Record landings of 14.6 million pounds of meats worth $1.6 million increased 99 percent in volume and 73 percent in value compared with 1969. Most of the increase was during the first 7 months of the year when the fleet was fishing for inshore clams. The abundance of inshore clams encouraged the fishery, but packing firms finally refused to buy them because of a slow market. Beginning in August, the fleet fished the offshore clam beds. The surf clam fishery has been gradually moving south in its search for clam beds. In 1970, 19 dredge vessels landed at Ocean City, Md., and 8 other vessels landed at Chincoteague and Oyster, Va. Several plants shucked surf clams in both Maryland and Virginia. Other plants in Maryland packaged frozen surf clam specialties.

Spot. Landings of 6.4 million pounds were 5.4 million (502 percent) more than in 1969, and second only to the record harvest of 8.7 million pounds taken in 1949. The fishery began in the late spring, but most of the landings were made from July through September. September was the month of greatest production--the fish were taken as they began to move back out of the Chesapeake Bay. Catches were made principally by pound nets, haul seines, and gill nets.

Soft clams. Landings of 6.2 million pounds of meats worth $2.4 million declined 21 percent in volume and 13 percent in value compared with 1969. The production decline resulted from overfishing in some areas and also from clam mortalities in the late summer--caused by low oxygen levels on the bottom. The average price per pound increased from 35 cents in 1969 to 39 cents in 1970. The entire production was from Maryland. Few stocks of soft clams exist in Virginia, which had no commercial clam fishery in 1970.

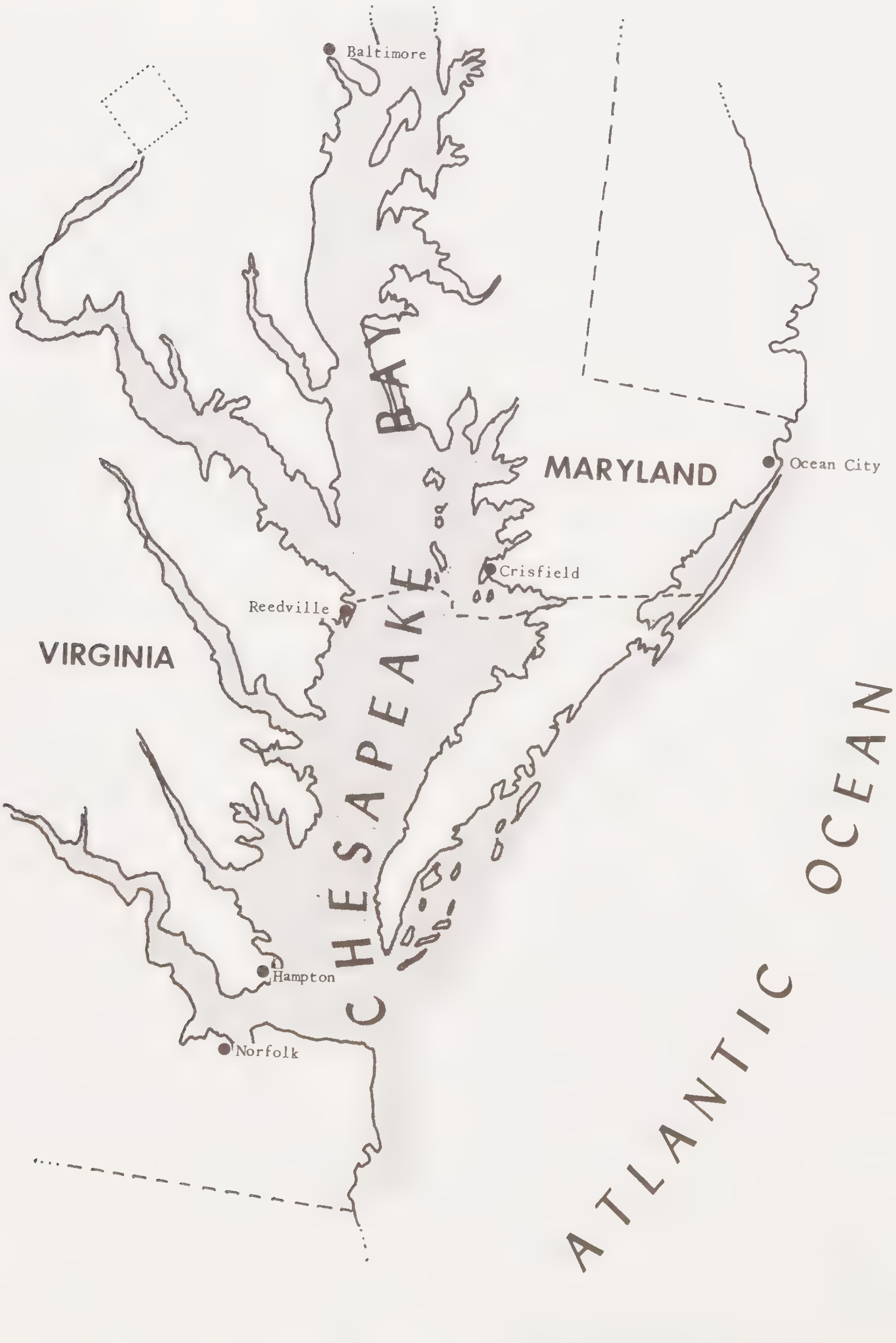
Hard clams. Landings of 1.9 million pounds of meats worth $1.2 million declined 30 percent in volume and 29 percent in value compared with 1969. The harvest was the smallest since 1960. The decline was caused largely by lack of consumer demand. The littleneck and cherrystone sizes were still popular, but the chowder sizes were not. The chowder-sized clam usually was about 40 to 60 percent of the total landings, but in 1970, competition from the surf clam almost eliminated the chowder-size clam. Packing firms changed from buying hard clams to buying surf clams--with a noticeable effect on the fishery in the Chesapeake area.

Sea scallops. Landings of 750,000 pounds of meats worth $995,000 declined 46 percent in quantity and 32 percent in value compared with 1969. The harvest was the smallest since 1964. Declining stocks of sea scallops and less fishing effort were the principal reasons for the smaller production. In 1970, 14 vessels were in the sea scallop fishery and made 120 trips. In 1969, 20 vessels made 201 trips. The average trip in 1970 landed 6,300 pounds of meats--compared with 6,800 pounds of meats per trip in 1969. In 1970, the average exvessel price was $1.33 per pound--an increase of 26 cents per pound compared with 1969.

Other information. Landings of fish and shellfish in the bay and ocean areas of Maryland and Virginia are shown at the end of this section. Additional data may be found in the monthly and annual Maryland and Virginia landings bulletins published by the Statistics and Market News Division in cooperation with the respective States. Information on the daily, monthly, and annual production of fishery products in selected areas of these States is available in reports published by the NMFS Fishery Market News Office at Hampton, Va.

Acknowledgments. The following organizations helped collect the data appearing in this section: Maryland Fish and Wildlife Administration, Natural Resources Institute of the University of Maryland; Virginia Marine Resources Commission, Virginia Institute of Marine Science; and Potomac River Fisheries Commission.

CHESAPEAKE FISHERIES


Baltimore
BAY
MARYLAND
Ocean City
Crisfield
Reedville
VIRGINIA
CHESAPEAKE
Hampton
Norfolk
ATLANTIC OCEAN

CHESAPEAKE STATES

CHESAPEAKE FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
MARYLAND	16	2	64	17	80	19
VIRGINIA	495	12	55	10	551	22
TOTAL	511	14	119	27	630	41

NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
		-NUMBER-	
FISHERMEN:			
ON VESSELS	1,435	2,603	3,964
ON BOATS AND SHORE:			
REGULAR	4,251	2,966	7,217
CASUAL	5,982	1,835	7,817
TOTAL	11,668	7,404	18,998
VESSELS:			
MOTOR	721	838	1,527
GROSS TONNAGE	7,763	19,369	26,298
SAIL	39	-	39
GROSS TONNAGE	465	-	465
TOTAL VESSELS	760	838	1,566
TOTAL GROSS TONNAGE	8,228	19,369	26,763
BOATS:			
MOTOR	8,620	3,018	11,638
OTHER	236	431	667
GEAR:			
HAUL SEINES, COMMON	97	158	255
LENGTH, YARDS	38,940	73,500	112,440
PURSE SEINES, MENHADEN	-	25	25
LENGTH, YARDS	-	9,375	9,375
OTTER TRAWLS:			
FISH	23	57	68
YARDS AT MOUTH	591	1,539	1,858
LOBSTER	2	9	10
YARDS AT MOUTH	55	260	290
POUND NETS:			
FISH	169	795	964
CRAB	50	1,940	1,990
FYKE AND HOOP NETS:			
FISH	285	270	555
TURTLE	21	-	21
POTS AND TRAPS:			
CRAB	86,160	168,275	254,435
EEL	9,386	14,130	23,516
FISH	2,309	14,490	16,799
TURTLE	75	185	260
GILL NETS:			
ANCHOR, SET, OR STAKE	1,961	1,410	3,371
SQUARE YARDS	2,175,990	646,069	2,822,059
DRIFT:			
SHAD	-	202	202
SQUARE YARDS	-	151,500	151,500
OTHER	393	512	905
SQUARE YARDS	788,950	214,515	1,003,465
LINES:			
HAND	424	738	1,162
HOOKS	424	738	1,162
LONG OR SET WITH HOOKS	-	38	38
HOOKS	-	6,400	6,400
TROT WITH BAITS	5,583	66	5,650
BAITS	1,393,115	33,800	1,427,415
DIP NETS, COMMON	110	88	198
SCRAPES	86	111	197
YARDS AT MOUTH	86	123	209

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
		NUMBER	
GEAR - CONTINUED:			
DREDGES:			
CLAM	277	25	300
YARDS AT MOUTH	295	38	330
CONCH	1	-	1
YARDS AT MOUTH	2	-	2
CRAB	-	324	324
YARDS AT MOUTH	-	554	554
OYSTER, COMMON	122	324	446
YARDS AT MOUTH	148	367	515
SCALLOP, SEA	-	40	40
YARDS AT MOUTH	-	91	91
OTHER	2	-	2
YARDS AT MOUTH	4	-	4
TONGS:			
OYSTER	4,263	2,437	6,700
OTHER	61	437	498
RAKES	-	55	55

LANDINGS BY STATES, 1970

SPECIES	MARYLAND		VIRGINIA		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	2,065	52	19,046	393	21,111	445
BLUEFISH	69	7	646	61	715	68
BONITO	-	-	3	(1)	3	(1)
BUTTERFISH	11	1	1,603	202	1,614	203
CABIO	-	-	2	(1)	2	(1)
CARP	170	5	51	1	221	6
CATFISH AND BULLHEADS	205	23	1,135	171	1,340	194
COD	6	1	1	(1)	7	1
CRAPPIE	6	(1)	-	-	6	(1)
CROAKER	(1)	(1)	128	16	128	16
DRUM:						
BLACK	8	1	72	6	80	7
RED	-	-	(1)	(1)	(1)	(1)
EEL, COMMON	289	39	1,205	261	1,494	300
FLOUNDERS:						
BLACKBACK	21	2	123	10	144	12
FLUKE	371	93	2,146	610	2,517	703
UNCLASSIFIED	1	(1)	13	1	14	1
GARFISH	(1)	(1)	5	(1)	5	(1)
GIZZARD SHAD	9	(1)	5	(1)	14	(1)
HAKE:						
RED	11	(1)	1	(1)	12	(1)
WHITE	-	-	(1)	(1)	(1)	(1)
HARVESTFISH	-	-	31	5	31	5
HERRING, SEA	1	(1)	10	(1)	11	(1)
HICKORY SHAD	46	4	24	2	70	6
HOGCHOKER	3	(1)	-	-	3	(1)
KING WHITING OR "KINGFISH"	11	2	91	10	102	12
MACKEREL:						
ATLANTIC	3	(1)	273	14	276	14
KING	-	-	5	1	5	1
SPANISH	1	(1)	200	31	201	31
MENHADEN	3,837	114	445,960	7,524	449,797	7,638
MULLET, BLACK (LISA)	3	(1)	1	(1)	4	(1)
PIGFISH	-	-	22	2	22	2
PIKE OR PICKEREL	1	(1)	-	-	1	(1)
POMPANO	-	-	1	(1)	1	(1)
SCUP OR PORGY	5	1	2,076	362	2,081	363
SEA BASS, BLACK	202	61	1,482	321	1,684	382
SEA ROBIN	40	(1)	-	-	40	(1)
SEA TROUT OR WEAKFISH:						
GRAY	322	30	2,142	253	2,464	283
SPOTTED	-	-	66	19	66	19
SHAD	1,039	107	4,112	315	5,151	422
SHARKS:						
GRAYFISH	14	1	75	2	89	3
UNCLASSIFIED	48	1	5	(1)	53	1

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	MARYLAND		VIRGINIA		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SPOT	573	80	5,873	547	6,446	627
STRIPED BASS	3,978	870	1,781	371	5,759	1,241
STURGEON, COMMON	4	1	22	4	26	5
SUCKERS	(1)	(1)	-	-	(1)	(1)
SUNFISH	8	1	-	-	8	1
SWELLFISH	700	43	822	23	1,522	66
TAUTOG	1	(1)	(1)	(1)	1	(1)
TILEFISH	-	-	3	(1)	3	(1)
WHITE PERCH	1,662	268	264	35	1,926	303
WHITING	32	4	32	3	64	7
YELLOW PERCH	108	14	3	(1)	111	14
UNCLASSIFIED:						
FOR FOOD	6	1	69	7	75	8
FOR BAIT, REDUCTION, AND ANIMAL FOOD	4	(1)	3,734	53	3,738	53
TOTAL FISH	15,894	1,827	495,364	11,636	511,258	13,463
SHELLFISH ET AL.						
CRABS, BLUE:						
HARD	24,935	2,087	42,416	2,388	67,351	4,475
SOFT AND PEELER	1,580	670	910	338	2,490	1,008
TOTAL CRABS	26,515	2,757	43,326	2,726	69,841	5,483
LOBSTERS, AMERICAN	22	20	229	149	251	169
CLAMS:						
HARD:						
PUBLIC	568	317	1,257	824	1,825	1,141
PRIVATE	-	-	74	48	74	48
SOFT, PUBLIC	6,221	2,434	-	-	6,221	2,434
SURF	13,681	1,475	889	110	14,570	1,585
TOTAL CLAMS	20,470	4,226	2,220	982	22,690	5,208
CONCHS	277	64	91	10	368	74
OYSTERS, MARKET:						
PUBLIC:						
SPRING	4,360	2,640	863	598	5,223	3,238
FALL	11,586	6,421	2,247	1,478	13,833	7,899
PRIVATE:						
SPRING	443	378	2,605	1,824	3,048	2,202
FALL	236	214	2,328	1,527	2,564	1,741
TOTAL OYSTERS	16,625	9,653	8,043	5,427	24,668	15,080
SCALLOPS, SEA	-	-	750	995	750	995
SQUID	10	2	422	25	432	27
TERRAPIN	3	1	5	3	8	4
TURTLES, SNAPPER	81	16	103	24	184	40
TOTAL SHELLFISH ET AL.	64,003	16,739	55,189	10,341	119,192	27,080
GRAND TOTAL	79,897	18,566	550,553	21,977	630,450	40,543

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS, CONCHS, AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS, IN WEIGHT OF EDIBLE MEATS.

CHESAPEAKE FISHERIES

LANDINGS OF CERTAIN SHELLFISH, 1970

SPECIES	MARYLAND		VIRGINIA		TOTAL	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:						
HARD:						
PUBLIC.	70,916	317,158	157,112	824,046	228,028	1,141,204
PRIVATE	-	-	9,225	47,549	9,225	47,549
SOFT, PUBLIC.	518,441	2,433,724	-	-	518,441	2,433,724
SURF.	804,777	1,474,777	52,275	110,025	857,052	1,584,802
CONCHS.	13,867	64,380	4,550	10,205	18,417	74,585
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	870,469	2,640,097	188,194	598,036	1,058,663	3,238,133
FALL.	2,084,374	6,421,483	489,975	1,477,808	2,574,349	7,899,291
PRIVATE:						
SPRING.	87,090	377,639	567,829	1,823,729	654,919	2,201,368
FALL.	45,258	214,279	507,591	1,527,367	552,849	1,741,646
SCALLOPS, SEA	-	-	125,067	994,957	125,067	994,957

NOTE:--THE CAPACITY OF THE U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN SHELLFISH, 1970

SPECIES	MARYLAND	VIRGINIA
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL	
CLAMS:		
HARD:		
PUBLIC.	8.00	8.00
PRIVATE	-	8.00
SOFT, PUBLIC.	12.00	-
SURF.	17.00	17.00
CONCHS.	20.00	20.00
OYSTERS, MARKET:		
PUBLIC:		
SPRING.	5.00	4.59
FALL.	5.55	4.59
PRIVATE:		
SPRING.	5.08	4.59
FALL.	5.22	4.59
SCALLOPS, SEA	-	6.00

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

CHESAPEAKE FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	MARYLAND		VIRGINIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
ALEWIVES:					
ROE, FRESH	POUNDS	-	-	(1)	(1)
CANNED:					
FISH	STANDARD CASES	-	-	(1)	(1)
ROE	DO	-	-	(1)	(1)
SALTED	DO	-	-	1,674,100	379,990
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
SOLUBLES	TONS	-	-	(1)	(1)
ANCHOVY PASTE, CANNED	STANDARD CASES	(1)	(1)	-	-
COD SPECIALTIES, FROZEN (CAKES, BREADED COOKED)	POUNDS	-	-	(1)	(1)
FLOUNDER:					
DRESSED, FROZEN	DO	-	-	(1)	(1)
FILLETS:					
FRESH	DO	-	-	(1)	(1)
BREADED RAW, FROZEN	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (STUFFED, BREADED COOKED)	DO	(1)	(1)	-	-
HERRING, SEA. SPECIALTIES, CURED AND REFRIGERATED, (BISMARKS, PARTY SNACKS, ETC.)	DO	(1)	(1)	-	-
MENHADEN:					
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
SOLUBLES	TONS	-	-	(1)	(1)
SEA TROUT, DRESSED, FROZEN	POUNDS	-	-	(1)	(1)
TUNA:					
SPECIALTIES, FROZEN (PIES AND CAKES)	DO	(1)	(1)	(1)	(1)
CANNED:					
ALBACORE AND LIGHTMEAT	STANDARD CASES	(1)	(1)	-	
ANIMAL FOOD	DO	(1)	(1)	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-
CRABS, BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	POUNDS	[illegible],093,234	5,746,065	3,086,870	5,464,085
SPECIALTIES:					
COCKTAILS, REFRIGERATED	DO	(1)	(1)	-	-
BREADED, RAW AND COOKED:					
CAKES	DO	312,850	359,220	238,590	269,503
DEVILED	DO	454,659	409,051	(1)	(1)
OTHER (CUTLETS AND IMPERIAL)	DO	(1)	(1)	-	-
CANNED (SOUP)	STANDARD CASES	(1)	(1)	-	-
MEAL AND SCRAP	TONS	(1)	(1)	4,682	210,430
LOBSTER SPECIALTIES, CANNED (SOUP):					
AMERICAN	STANDARD CASES	(1)	(1)	-	-
SPINY	DO	(1)	(1)	-	-
SHRIMP:					
FRESH AND FROZEN:					
BREADED, RAW AND COOKED	POUNDS	(1)	(1)	348,270	355,804
SPECIALTIES (COCKTAILS, CREOLES, CAKES AND CURRY)	DO	230,650	209,345	(1)	(1)
CANNED (SOUP)	STANDARD CASES	(1)	(1)	-	-
CLAMS:					
FRESH AND FROZEN:					
SHUCKED:					
HARD AND SURF	GALLONS	(1)	(1)	689,134	3,029,875
SOFT	DO	440,940	3,598,619	-	-
SPECIALTIES:					
BREADED, RAW AND COOKED	POUNDS	2,890,204	2,829,001	(1)	(1)
OTHER (STICKS, CAKES, AND PATTIES)	DO	(1)	(1)	-	-
CANNED:					
MINCED	STANDARD CASES	59,585	1,105,048	-	-
CHOWDER AND JUICE	DO	(1)	(1)	-	-
SPECIALTIES (IN SHELL)	DO	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

CHESAPEAKE FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	MARYLAND		VIRGINIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CONCH MEAT, STEAMED FRESH. . . .	POUNDS	-	-	(1)	(1)
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED.	GALLONS	764,755	6,498,526	1,919,505	15,240,460
STEAMED.	POUNDS	-	-	1,080,025	1,837,043
SPECIALTIES, BREADED RAW . . AND COOKED.	DO	68,875	80,857	613,600	762,767
SHELL, GRIT AND LIME	TONS	(1)	(1)	(1)	(1)
SCALLOPS, SEA, BREADED, RAW OR AND COOKED, FROZEN.	POUNDS	62,830	89,833	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED FISH, FILLETS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH. . .	POUNDS	54,078,725	24,940,867	1,767,180	1,223,710
CANNED	STANDARD CASES	698,138	11,199,357	91,991	599,948
CURED.	POUNDS	(1)	(1)	-	-
INDUSTRIAL	-	-	1,140,260	-	12,813,147
TOTAL	-	-	58,206,049	-	42,186,762

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH. NOTE:--SOME OF THE ABOVE PRODUCTS HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THERFORE THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH.	41,668
FROZEN	27,088
CANNED	12,904
CURED.	4,569
INDUSTRIAL	14,164
TOTAL.	100,393

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
MARYLAND	58,206
VIRGINIA	42,187
TOTAL.	100,393

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
		EMPLOYMENT AVERAGE			EMPLOYMENT AVERAGE			EMPLOYMENT AVERAGE	
	PLANTS	SEASON	YEAR	PLANTS	SEASON	YEAR	PLANTS	SEASON	YEAR
	NUMBER								
MARYLAND.	95	4,366	3,392	110	446	398	205	4,812	3,790
VIRGINIA.	120	5,188	3,452	140	646	569	260	5,834	4,021
TOTAL.	215	9,554	6,844	250	1,092	967	465	10,646	7,811

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

CHESAPEAKE FISHERIES

MARYLAND

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS	
		FISH	LOBSTER	FISH	CRAB	FISH	TURTLE
	NUMBER						
FISHERMEN:							
ON VESSELS	115	81	10	85	-	14	-
ON BOATS AND SHORE:							
REGULAR	197	-	-	177	18	27	8
CASUAL	139	-	-	58	-	45	3
TOTAL	451	81	10	320	18	86	11
VESSELS, MOTOR	23	23	2	18	-	11	-
GROSS TONNAGE	199	1,014	129	165	-	91	-
BOATS:							
MOTOR	88	-	-	59	18	58	9
OTHER	82	-	-	67	-	-	-
GEAR:							
NUMBER	97	23	2	169	50	285	21
LENGTH, YARDS	38,940	-	-	-	-	-	-
YARDS AT MOUTH	-	591	55	-	-	-	-

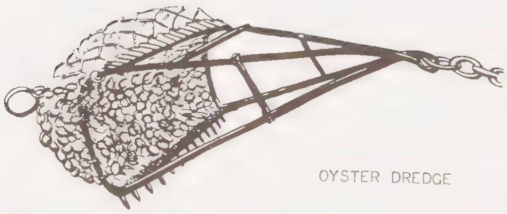
ITEM	POTS AND TRAPS				GILL NETS	
	CRAB	EEL	FISH	TURTLE	ANCHOR, SET, OR STAKE	DRIFT
	NUMBER					
FISHERMEN:						
ON VESSELS	217	1	[illegible]	-	203	[illegible]
ON BOATS AND SHORE:						
REGULAR	527	194	2	10	[illegible]	[illegible]
CASUAL	299	81	2	-	[illegible]	[illegible]
TOTAL	1,043	[illegible]	10	[illegible]	[illegible]	[illegible]
VESSELS, MOTOR	[illegible]	1	3	-	124	[illegible]
GROSS TONNAGE	[illegible]	[illegible]	[illegible]	-	1,121	[illegible]
BOATS:						
MOTOR	[illegible]	[illegible]	4	13	1,024	[illegible]
OTHER	-	-	-	-	3	-
GEAR:						
NUMBER	86,160	9,386	2,309	75	1,961	393
SQUARE YARDS	-	-	-	-	[illegible]	[illegible]

ITEM	LINES		DIP NETS, COMMON	SCRAPES	DREDGES	
	HAND	TROT WITH BAITS			CLAM	CONCH
	NUMBER					
FISHERMEN:						
ON VESSELS	-	183	-	-	302	2
ON BOATS AND SHORE:						
REGULAR	15	1,781	8	72	274	-
CASUAL	247	3,617	102	14	-	-
TOTAL	262	5,581	110	86	576	2
VESSELS, MOTOR	-	176	-	-	140	1
GROSS TONNAGE	-	1,348	-	-	2,139	37
BOATS:						
MOTOR	81	4,765	6	86	137	-
OTHER	-	-	92	-	-	-
GEAR:						
NUMBER	424	5,583	110	86	277	1
YARDS AT MOUTH	-	-	-	86	295	2
HOOKS OR BAITS	424	1,393,115	-	-	-	-

(CONTINUED ON NEXT PAGE)

MARYLAND - OPERATING UNITS BY GEAR, 1970 - Continued

ITEM	DREDGES - CONTINUED		TONGS		BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER, COMMON	OTHER	OYSTER	OTHER		
	NUMBER					
FISHERMEN:						
ON VESSELS.	280	-	468	5	-	1,435
ON BOATS AND SHORE:						
REGULAR	44	4	2,802	37	14	4,251
CASUAL.	4	-	917	19	11	5,982
TOTAL	328	4	4,187	61	25	11,668
VESSELS:						
MOTOR	16	-	426	5	-	721
GROSS TONNAGE	173	-	3,485	42	-	7,763
SAIL.	39	-	-	-	-	39
GROSS TONNAGE	465	-	-	-	-	465
TOTAL VESSELS	55	-	426	5	-	760
TOTAL GROSS TONNAGE .	638	-	3,485	42	-	8,228
BOATS:						
MOTOR	21	2	3,275	51	-	8,620
OTHER	-	-	-	-	-	236
GEAR:						
NUMBER.	122	2	4,263	61	-	-
YARDS AT MOUTH.	148	4	-	-	-	-



OYSTER DREDGE

MARYLAND - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		LOBSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	2,900	74	-	-	-	-
BLUEFISH	1,300	142	7,500	495	-	-
BUTTERFISH	-	-	10,700	1,333	-	-
CARP	122,300	3,533	-	-	-	-
CATFISH AND BULLHEADS	23,900	2,736	-	-	-	-
COD	-	-	6,400	640	-	-
DRUM, BLACK	-	-	100	12	-	-
EEL, COMMON	7,900	1,141	-	-	-	-
FLOUNDERS:						
BLACKBACK	100	9	19,100	1,676	-	-
FLUKE	-	-	362,200	90,943	1,500	338
UNCLASSIFIED	-	-	1,900	84	-	-
HAKE, RED	-	-	3,000	117	-	-
HERRING, SEA	-	-	600	11	-	-
KING WHITING OR "KINGFISH"	-	-	4,000	509	-	-
MACKEREL, ATLANTIC	-	-	3,200	121	-	-
MENHADEN	45,700	1,361	-	-	-	-
SCUP OR PORGY	-	-	5,300	836	-	-
SEA BASS	-	-	5,800	1,597	-	-
SEA ROBIN	-	-	39,900	478	-	-
SEA TROUT OR WEAKFISH, GRAY	5,700	843	273,500	22,853	-	-
SHAD	200	20	100	5	-	-
SKARKS:						
GRAYFISH	-	-	13,500	677	-	-
UNCLASSIFIED	-	-	48,400	968	-	-
SPOT	209,200	25,859	4,600	647	-	-
STRIPED BASS	129,900	28,202	289,700	57,517	-	-
STURGEON, COMMON	-	-	3,600	708	-	-
SWELLFISH	800	27	500	26	-	-
WHITE PERCH	182,300	29,578	-	-	-	-
WHITING	-	-	31,900	4,149	-	-
YELLOW PERCH	9,200	1,167	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	2,300	224	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	4,400	65	-	-
LOBSTERS, AMERICAN	-	-	500	382	13,700	12,311
CONCHS	-	-	16,800	3,881	-	-
SQUID	-	-	9,800	1,607	-	-
TOTAL	741,400	94,692	1,169,300	192,561	15,200	12,649

SPECIES	POUND NETS				FYKE AND HOOP NETS	
	FISH		CRAB		FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	1,846,500	46,191	-	-	900	22
BLUEFISH	41,100	4,566	-	-	-	-
BUTTERFISH	200	20	-	-	-	-
CARP	9,500	274	-	-	10,400	288
CATFISH AND BULLHEADS	24,600	2,817	-	-	72,100	7,840
CRAPPIE	400	28	-	-	5,600	391
CROAKER	100	29	-	-	-	-
DRUM, BLACK	7,500	468	-	-	-	-
EEL, COMMON	7,400	1,070	-	-	1,500	212
FLOUNDERS:						
BLACKBACK	700	61	-	-	800	72
FLUKE	6,800	2,020	-	-	-	-
HICKORY SHAD	100	8	-	-	-	-
HOGCHOKER	3,100	62	-	-	-	-
MACKEREL, SPANISH	1,100	223	-	-	-	-
MENHADEN	3,446,500	102,319	-	-	200	6
SEA TROUT OR WEAKFISH, GRAY	25,200	3,732	-	-	-	-
SHAD	52,100	5,194	-	-	-	-
SPOT	89,300	13,227	-	-	-	-
STRIPED BASS	166,500	36,689	-	-	4,100	902
STURGEON, COMMON	400	72	-	-	-	-
SUNFISH	-	-	-	-	6,900	478
SWELLFISH	19,900	701	-	-	100	3
WHITE PERCH	235,900	39,580	-	-	74,200	11,139
YELLOW PERCH	26,500	3,364	-	-	44,900	5,840
UNCLASSIFIED, FOR FOOD	1,500	246	-	-	500	90
CRABS, BLUE:						
HARD	-	-	6,400	576	-	-
SOFT AND PEELER	-	-	167,300	76,958	-	-
TOTAL	6,012,900	262,961	173,700	77,534	222,200	27,283

(CONTINUED ON NEXT PAGE)

MARYLAND - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	FYKE AND HOOP NETS - CONTINUED		POTS AND TRAPS			
	TURTLE		CRAB		EEL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
EELS, COMMON.	-	-	-	-	270,500	36,138
SWELLFISH	-	-	679,000	42,141	-	-
CRABS, BLUE:						
HARD.	-	-	14,283,200	1,069,943	-	-
SOFT AND PEELER	-	-	103,400	40,934	-	-
TURTLES, SNAPPER.	25,400	5,088	-	-	-	-
TOTAL.	25,400	5,088	15,065,600	1,153,018	270,500	36,138

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	FISH		TURTLE		ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	1,600	41	-	-	184,100	4,546
BLUEFISH.	-	-	-	-	5,600	697
BUTTERFISH.	-	-	-	-	100	8
CARP.	700	20	-	-	25,900	749
CATFISH AND BULLHEADS . . .	23,800	2,426	-	-	50,700	5,792
CRAPPIE	-	-	-	-	400	28
DRUM, BLACK	-	-	-	-	100	6
EELS, COMMON.	700	14	-	-	700	99
FLOUNDERS, BLACKBACK. . . .	-	-	-	-	700	63
GIZZARD SHAD.	-	-	-	-	9,200	214
HAKE, RED	7,800	294	-	-	-	-
HICKORY SHAD.	-	-	-	-	38,100	3,455
KING WHITING OR "KINGFISH".	-	-	-	-	3,200	633
MENHADEN.	-	-	-	-	329,200	9,780
MULLET, BLACK (LISA). . . .	-	-	-	-	3,000	238
SEA BASS, BLACK	196,500	59,147	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	-	-	15,000	2,476
SHAD.	100	10	-	-	818,400	84,825
SPOT.	-	-	-	-	77,200	12,603
STRIPED BASS.	-	-	-	-	2,249,400	489,947
SUNFISH	-	-	-	-	500	35
TAUTOG.	500	19	-	-	-	-
WHITE PERCH	1,900	311	-	-	867,100	139,596
YELLOW PERCH.	-	-	-	-	22,200	2,819
UNCLASSIFIED, FOR FOOD. . .	-	-	-	-	300	60
LOBSTERS, AMERICAN.	7,500	7,772	-	-	-	-
TURTLES, SNAPPER.	-	-	55,200	10,562	-	-
TOTAL.	241,100	70,054	55,200	10,562	4,701,100	758,669

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT		HAND		TROT WITH BAITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	28,600	710	-	-	-	-
BLUEFISH.	5,700	700	8,200	760	-	-
CARP.	1,600	47	-	-	-	-
CATFISH AND BULLHEADS . . .	9,700	1,110	-	-	-	-
FLOUNDERS, FLUKE.	100	30	-	-	-	-
GIZZARD SHAD.	100	2	-	-	-	-
HICKORY SHAD.	7,900	623	-	-	-	-
KING WHITING OR "KINGFISH".	3,400	633	-	-	-	-
MENHADEN.	15,300	454	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	2,900	521	-	-	-	-
SHAD.	167,700	17,207	-	-	-	-
SPOT.	76,600	11,741	115,700	16,331	-	-
STRIPED BASS.	1,053,100	231,309	84,800	25,216	-	-
SUNFISH	100	7	-	-	-	-
WHITE PERCH	261,200	42,282	39,200	5,226	-	-
YELLOW PERCH.	4,500	579	100	13	-	-
UNCLASSIFIED, FOR FOOD. . .	2,800	260	-	-	-	-
CRABS, BLUE:						
HARD.	-	-	-	-	10,496,200	1,003,467
SOFT AND PEELER	-	-	-	-	63,600	25,200
TOTAL.	1,641,300	308,215	248,000	47,546	10,559 800	1,028,667

SPECIES	DIP NETS, COMMON		SCRAPES	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE:				
HARD.	16,100	1,794	133,500	10,790
SOFT AND PEELER	33,300	15,718	1,212,200	511,159
TOTAL.	49,400	17,512	1,345,700	521,949

(CONTINUED ON NEXT PAGE)

MARYLAND - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	DREDGES					
	CLAM		CONCH		OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS:						
HARD, PUBLIC	507,700	279,705	-	-	-	-
SOFT	6,221,300	2,433,724	-	-	-	-
SURF	13,681,200	1,474,777	-	-	-	-
CONCHS	221,700	51,180	38,800	9,319	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	-	-	868,500	530,300
FALL	-	-	-	-	1,114,700	649,900
PRIVATE:						
SPRING	-	-	-	-	409,900	358,423
FALL	-	-	-	-	204,900	196,900
TOTAL	20,631,900	4,239,386	38,800	9,319	2,598,000	1,735,523

SPECIES	DREDGES - CONTINUED		TONGS	
	OTHER		OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET:				
PUBLIC:				
SPRING	-	-	3,491,100	2,109,797
FALL	-	-	10,471,800	5,771,583
PRIVATE:				
SPRING	-	-	32,900	19,216
FALL	-	-	31,400	17,379
TERRAPIN	3,300	1,240	-	-
TOTAL	3,300	1,240	14,027,200	7,917,975

SPECIES	TONGS - CONTINUED		BY HAND	
	OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	55,800	35,308	3,900	2,145

VIRGINIA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS		POUND NETS		FYKE AND HOOP NETS, FISH
			FISH	LOBSTER	FISH	CRAB	
	NUMBER						
FISHERMEN:							
ON VESSELS	83	405	240	47	309	6	2
ON BOATS AND SHORE:							
REGULAR	356	-	-	-	792	202	58
CASUAL	236	-	-	-	481	109	59
TOTAL	675	405	240	47	1,582	317	119
VESSELS, MOTOR	18	25	57	9	59	5	1
GROSS TONNAGE	156	6,606	4,300	782	945	38	5
BOATS:							
MOTOR	254	50	-	-	318	271	82
OTHER	134	-	-	-	369	2	7
GEAR:							
NUMBER	158	25	57	9	795	1,940	270
LENGTH, YARDS	73,500	9,375	-	-	-	-	-
YARDS AT MOUTH	-	-	1,539	260	-	-	-

(CONTINUED ON NEXT PAGE)

VIRGINIA - OPERATING UNITS BY GEAR, 1970 - Continued

ITEM	POTS AND TRAPS				GILL NETS		
	CRAB	EEL	FISH	TURTLE	ANCHOR, SET, OR STAKE	DRIFT	
						SHAD	OTHER
	NUMBER						
FISHERMEN:							
ON VESSELS	348	11	10	-	83	-	46
ON BOATS AND SHORE:							
REGULAR	922	108	73	2	629	182	371
CASUAL	317	91	83	7	624	135	399
TOTAL	1,587	210	166	9	1,336	317	816
VESSELS, MOTOR	228	6	5	-	42	-	22
GROSS TONNAGE	1,681	48	155	-	357	-	242
BOATS:							
MOTOR	1,100	177	124	9	832	194	432
OTHER	-	-	-	-	8	-	3
GEAR:							
NUMBER	168,275	14,130	14,490	185	1,410	202	512
SQUARE YARDS	-	-	-	-	646,069	151,500	214,515

ITEM	LINES			DIP NETS, COMMON	SCRAPES	DREDGES	
	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS			CLAM	CRAB
	NUMBER						
FISHERMEN:							
ON VESSELS	-	8	6	-	33	13	447
ON BOATS AND SHORE:							
REGULAR	9	10	56	51	12	7	12
CASUAL	120	26	9	37	24	4	6
TOTAL	129	44	71	88	69	24	465
VESSELS, MOTOR	-	2	3	-	25	9	173
GROSS TONNAGE	-	145	23	-	204	120	3,007
BOATS:							
MOTOR	91	33	62	88	36	10	18
OTHER	1	-	-	-	-	-	-
GEAR:							
NUMBER	738	38	66	88	111	25	324
YARDS AT MOUTH	-	-	-	-	123	38	554
HOOKS OR BAITS	738	6,400	33,800	-	-	-	-

ITEM	DREDGES - CONTINUED		TONGS		RAKES	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER, COMMON	SCALLOP, SEA	OYSTER	OTHER			
	NUMBER						
FISHERMEN:							
ON VESSELS	354	134	637	112	-	-	2,803
ON BOATS AND SHORE:							
REGULAR	142	42	1,297	240	30	16	2,966
CASUAL	-	-	503	86	25	4	1,635
TOTAL	496	176	2,437	438	55	20	7,404
VESSELS, MOTOR	149	12	299	14	-	-	838
GROSS TONNAGE	1,468	1,092	2,300	480	-	-	19,369
BOATS:							
MOTOR	129	-	1,286	239	46	-	3,018
OTHER	-	-	-	-	-	-	431
GEAR:							
NUMBER	324	40	2,437	437	55	-	-
YARDS AT MOUTH	337	91	-	-	-	-	-

VIRGINIA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS	
					FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	349,300	7,002	-	-	300	5
BLUEFISH	123,300	11,486	-	-	37,000	3,357
BONITO	300	30	-	-	-	-
BUTTERFISH	130,900	13,962	-	-	1,164,000	154,073
CARP	32,800	873	-	-	-	-
CATFISH AND BULLHEADS	107,000	15,855	-	-	-	-
COD	-	-	-	-	1,100	116
CROAKER	31,700	3,735	-	-	4,700	526
DRUM:						
BLACK	3,300	162	-	-	5,300	273
RED	100	6	-	-	-	-
EEL, COMMON	82,600	20,162	-	-	-	-
FLOUNDER:						
BLACKBACK	6,800	577	-	-	63,900	5,140
FLUKE	42,000	10,431	-	-	1,966,300	564,292
UNCLASSIFIED	-	-	-	-	2,800	148
GARFISH	2,300	67	-	-	-	-
GIZZARD SHAD	900	27	-	-	-	-
HAKE, RED	-	-	-	-	900	57
HARVESTFISH	4,600	696	-	-	-	-
HERRING, SEA	1,800	36	-	-	-	-
HICKORY SHAD	900	85	-	-	-	-
KING WHITING OR "KINGFISH"	27,200	3,613	-	-	19,100	1,676
MACKEREL:						
ATLANTIC	1,000	50	-	-	156,000	7,993
SPANISH	63,800	9,638	-	-	-	-
MENHADEN	584,100	11,711	405,959,700	6,738,928	-	-
POMPANO	300	150	-	-	-	-
SCUP OR PORGY	-	-	-	-	2,074,800	361,735
SEA BASS, BLACK	1,000	285	-	-	1,029,200	185,370
SEA TROUT OR WEAKFISH:						
GRAY	461,700	53,501	-	-	175,400	23,853
SPOTTED	25,400	7,100	-	-	-	-
SHAD	149,900	11,950	-	-	-	-
SHARKS:						
GRAYFISH	1,800	58	-	-	38,300	674
UNCLASSIFIED	2,300	46	-	-	-	-
SPOT	1,606,500	141,992	-	-	24,900	2,793
STRIPED BASS	126,300	27,028	-	-	574,300	112,657
STURGEON, COMMON	200	41	-	-	9,700	1,630
SWELLFISH	107,100	2,674	-	-	5,700	219
TILEFISH	-	-	-	-	2,600	274
WHITE PERCH	74,500	9,854	-	-	-	-
WHITING	-	-	-	-	28,300	3,085
UNCLASSIFIED:						
FOR FOOD	6,200	615	-	-	21,300	2,180
FOR BAIT, REDUCTION, AND ANIMAL FOOD	1,128,500	18,183	-	-	120,900	1,392
LOBSTERS, AMERICAN	-	-	-	-	130,600	85,106
CONCHS	-	-	-	-	20,600	2,808
SQUID	-	-	-	-	421,700	25,110
TERRAPIN	5,000	2,656	-	-	-	-
TOTAL	5,293,400	386,337	405,959,700	6,738,928	8,099,700	1,546,542

SPECIES	OTTER TRAWLS - CONTINUED		POUND NETS			
	LOBSTER		FISH		CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	18,068,800	372,985	-	-
BLUEFISH	-	-	436,500	41,509	-	-
BONITO	-	-	2,600	260	-	-
BUTTERFISH	7,800	1,170	296,000	32,466	-	-
CABIO	-	-	1,900	248	-	-
CARP	-	-	3,100	83	-	-
CATFISH AND BULLHEADS	-	-	27,600	3,866	-	-
CROAKER	-	-	70,700	8,675	-	-
DRUM, BLACK	-	-	25,300	2,040	-	-
EEL, COMMON	-	-	355,200	94,882	-	-
FLOUNDERS:						
BLACKBACK	-	-	50,400	4,347	-	-
FLUKE	600	180	128,300	32,748	-	-
UNCLASSIFIED	-	-	1,400	37	-	-
GARFISH	-	-	3,000	86	-	-

(CONTINUED ON NEXT PAGE)

VIRGINIA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	OTTER TRAWLS - CONTINUED		POUND NETS			
	LOBSTER		FISH		CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
HAKE:						
RED	100	6	-	-	-	-
WHITE	200	20	-	-	-	-
HARVESTFISH	-	-	26,500	4,090	-	-
HERRING, SEA.	-	-	8,300	166	-	-
HICKORY SHAD.	-	-	3,900	307	-	-
KING WHITING OR "KINGFISH".	-	-	37,100	4,133	-	-
MACKEREL:						
ATLANTIC.	-	-	29,900	1,485	-	-
KING.	-	-	1,800	462	-	-
SPANISH	-	-	91,700	14,030	-	-
MENHADEN.	-	-	39,109,300	766,670	-	-
PIGFISH	-	-	5,300	530	-	-
SCUP OR PORGY	-	-	1,000	150	-	-
SEA BASS, BLACK	300	60	2,100	626	-	-
SEA TROUT OR WEAKFISH:						
GRAY.	-	-	1,217,500	141,281	-	-
SPOTTED	-	-	18,000	4,952	-	-
SHAD.	-	-	1,404,200	111,773	-	-
SHARKS:						
GRAYFISH.	4,900	433	2,000	65	-	-
UNCLASSIFIED.	-	-	2,200	44	-	-
SPOT.	-	-	2,443,700	229,632	-	-
STRIPED BASS.	-	-	391,800	84,246	-	-
STURGEON, COMMON.	-	-	200	34	-	-
SWELLFISH	-	-	505,900	13,211	-	-
TILEFISH.	100	11	-	-	-	-
WHITE PERCH	-	-	66,900	8,577	-	-
WHITING	100	11	200	34	-	-
YELLOW PERCH.	-	-	2,500	301	-	-
UNCLASSIFIED:						
FOR FOOD.	-	-	36,000	3,541	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD.	-	-	2,445,900	33,066	-	-
CRABS, BLUE:						
HARD.	-	-	7,500	698	1,150,400	64,032
SOFT AND PEELER	-	-	-	-	132,200	49,039
LOBSTERS, AMERICAN.	98,600	63,776	-	-	-	-
TOTAL	112,700	65,667	67,332,200	2,018,336	1,282,600	113,071

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
			CRAB		EEL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	598,400	11,969	-	-	-	-
CARP.	12,900	323	-	-	-	-
CATFISH AND BULLHEADS . . .	290,700	43,897	-	-	300	46
EEL, COMMON	113,400	17,769	-	-	650,000	127,802
GIZZARD SHAD.	1,600	48	-	-	100	3
HICKORY SHAD.	6,700	497	-	-	800	60
MENHADEN.	306,800	6,272	-	-	-	-
SEA TROUT OR WEAKFISH, GRAY	1,000	120	-	-	-	-
SHAD.	307,500	22,742	-	-	-	-
STRIPED BASS.	53,300	11,439	-	-	-	-
SWELLFISH	-	-	200,000	6,269	-	-
WHITE PERCH	41,200	5,961	-	-	1,100	141
YELLOW PERCH.	300	37	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD .	5,000	96	-	-	-	-
CRABS, BLUE:						
HARD.	-	-	28,120,200	1,587,921	-	-
SOFT AND PEELER	-	-	393,800	146,535	-	-
CONCHS.	-	-	27,900	2,931	-	-
TOTAL	1,738,800	121,170	28,741,900	1,743,656	652,300	128,052

(CONTINUED ON NEXT PAGE)

VIRGINIA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	FISH		TURTLE		ANCHOR, SET OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	14,700	357
BLUEFISH	-	-	-	-	16,400	1,622
CARP	-	-	-	-	1,900	52
CATFISH AND BULLHEADS	596,500	90,402	-	-	300	42
CROAKER	-	-	-	-	12,600	1,559
DRUM, BLACK	-	-	-	-	37,900	3,137
EEL, COMMON	3,700	733	-	-	-	-
FLOUNDERS:						
BLACKBACK	100	10	-	-	-	-
FLUKE	400	128	-	-	-	-
GIZZARD SHAD	-	-	-	-	2,200	64
HAKE, RED	-	-	-	-	200	10
HICKORY SHAD	300	22	-	-	3,400	252
KING WHITING OR "KINGFISH"	-	-	-	-	3,400	375
MACKEREL:						
ATLANTIC	-	-	-	-	900	45
KING	-	-	-	-	2,000	400
SPANISH	-	-	-	-	6,200	943
MULLET, BLACK (LISA)	-	-	-	-	500	50
PIGFISH	-	-	-	-	7,600	393
POMPANO	-	-	-	-	200	100
SEA BASS, BLACK	428,400	129,842	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	137,100	16,105
SPOTTED	-	-	-	-	7,900	2,148
SHAD	-	-	-	-	1,399,200	104,672
SHARKS:						
GRAYFISH	-	-	-	-	19,100	853
UNCLASSIFIED	-	-	-	-	200	4
SPOT	-	-	-	-	1,252,700	125,129
STRIPED BASS	-	-	-	-	417,900	89,144
STURGEON, COMMON	-	-	-	-	10,600	1,875
SWELLFISH	400	10	-	-	2,500	75
TAUTOG	100	5	-	-	-	-
WHITE PERCH	4,800	637	-	-	68,500	8,786
YELLOW PERCH	-	-	-	-	300	39
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	5,300	529
FOR BAIT, REDUCTION, AND ANIMAL FOOD	100	2	-	-	23,400	347
TURTLES, SNAPPER	-	-	19,800	4,554	-	-
TOTAL	1,034,800	221,791	19,800	4,554	3,455,100	359,107

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT		HAND		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	14,200	297	-	-	-	-
BLUEFISH	16,200	1,564	16,200	1,480	-	-
BUTTERFISH	1,000	130	-	-	-	-
CARP	300	9	-	-	-	-
CATFISH AND BULLHEADS	100	14	-	-	112,300	17,062
CROAKER	8,200	996	-	-	-	-
DRUM, BLACK	600	49	-	-	-	-
GIZZARD SHAD	300	9	-	-	-	-
HAKE, RED	200	10	-	-	-	-
HICKORY SHAD	7,900	581	-	-	-	-
KING WHITING OR "KINGFISH"	4,200	465	-	-	-	-
MACKEREL:						
ATLANTIC	73,200	3,840	12,000	625	-	-
KING	1,100	220	300	60	-	-
SPANISH	34,100	5,265	4,300	668	-	-
PIGFISH	8,000	470	1,500	77	-	-
POMPANO	100	50	400	180	-	-
SEA BASS, BLACK	-	-	21,100	4,892	-	-
SEA TROUT OR WEAKFISH:						
GRAY	140,700	16,843	8,400	1,260	-	-
SPOTTED	400	109	14,200	4,156	-	-
SHAD	851,000	63,905	-	-	-	-
SHARKS:						
GRAYFISH	6,100	255	2,000	100	-	-
UNCLASSIFIED	200	4	100	2	-	-
SPOT	545,000	47,387	-	-	-	-
STRIPED BASS	184,100	39,500	33,800	7,436	-	-
STURGEON, COMMON	1,500	300	-	-	-	-

(CONTINUED ON NEXT PAGE)

VIRGINIA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT		HAND		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
TAUTOG	-	-	100	5	-	-
WHITE PERCH	6,600	845	-	-	-	-
WHITING	2,900	276	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	300	30	-	-	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	10,400	201	-	-	-	-
TURTLES, SNAPPER	-	-	82,700	19,031	-	-
TOTAL	1,918,900	183,624	197,100	39,972	112,300	17,062

SPECIES	LINES - CONTINUED		DIP NETS, COMMON		SCRAPES	
	TROT WITH BAITS					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE:						
HARD	2,535,700	139,444	44,000	2,472	-	-
SOFT AND PEELER	34,700	12,856	23,200	8,635	316,400	116,995
TOTAL	2,570,400	152,300	67,200	11,107	316,400	116,995

SPECIES	DREDGES					
	CLAM		CRAB		OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE, HARD	-	-	10,558,500	593,417	-	-
CLAMS:						
HARD, PUBLIC	217,100	142,311	-	-	-	-
SURF	888,700	110,025	-	-	-	-
CONCHS	-	-	42,500	4,466	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING	-	-	-	-	2,312,000	1,627,543
FALL	-	-	-	-	2,121,100	1,390,657
TOTAL	1,105,800	252,336	10,601,000	597,883	4,433,100	3,018,200

SPECIES	DREDGES - CONTINUED		TONGS			
	SCALLOP, SEA		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUTTERFISH	3,600	540	-	-	-	-
FLOUNDERS:						
BLACKBACK	1,300	117	-	-	-	-
FLUKE	8,000	2,400	-	-	-	-
UNCLASSIFIED	9,300	562	-	-	-	-
KING WHITING OR "KINGFISH"	300	23	-	-	-	-
SEA BASS, BLACK	300	60	-	-	-	-
SHARKS, GRAYFISH	300	27	-	-	-	-
TILEFISH	200	21	-	-	-	-
WHITING	600	65	-	-	-	
CLAMS, HARD:						
PUBLIC	-	-	-	-	836,500	547,611
PRIVATE	-	-	-	-	70,300	45,290
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	863,200	598,036	-	-
FALL	-	-	2,247,400	1,477,808	-	-
PRIVATE:						
SPRING	-	-	292,500	196,186	-	-
FALL	-	-	207,100	136,710	-	-
SCALLOPS, SEA	750,400	994,957	-	-	-	-
TOTAL	774,300	998,772	3,610,200	2,408,740	906,800	592,901

SPECIES	RAKES		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE, SOFT AND PEELER	-	-	9,400	3,920
CLAMS, HARD:				
PUBLIC	134,900	88,980	68,400	45,144
PRIVATE	3,500	2,259	-	-
TOTAL	138,400	91,239	77,800	49,064

CHESAPEAKE FISHERIES

CHESAPEAKE STATES - LANDINGS OF CATCH BY WATERS, 1970

SPECIES	MARYLAND				VIRGINIA	
	OCEAN 1/		CHESAPEAKE BAY		OCEAN 1/	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	2,064,600	51,584	-	-
BLUEFISH	11,600	1,111	57,800	6,249	62,500	6,417
BUTTERFISH	10,800	1,341	200	20	1,201,300	159,150
CARP	-	-	170,400	4,911	-	-
CATFISH AND BULLHEADS	-	-	204,800	22,721	-	-
COD	6,400	640	-	-	1,100	116
CRAPPIE	-	-	6,400	447	-	-
CROAKER	-	-	100	29	6,700	686
DRUM, BLACK	100	12	7,600	474	55,200	4,299
EEL, COMMON	700	14	288,000	38,660	-	-
FLOUNDERS:						
BLACKBACK	19,100	1,676	2,300	205	65,200	5,257
FLUKE	363,700	91,281	6,900	2,050	1,998,800	574,515
UNCLASSIFIED	1,900	84	-	-	13,500	747
GIZZARD SHAD	-	-	9,300	216	-	-
HAKE:						
RED	10,800	411	-	-	1,000	63
WHITE	-	-	-	-	200	20
HERRING, SEA	[illegible]	11	-	-	-	-
HICKORY SHAD	-	-	46,100	4,086	-	-
HOGCHOKER	-	-	3,100	62		
KING WHITING OR "KINGFISH"	[illegible]	1,607	1,000	168	26,500	3,071
MACKEREL:						
ATLANTIC	3,200	121	-	-	238,500	12,323
KING	-	-	-	-	1,800	462
SPANISH	-	-	1,100	223	200	25
MENHADEN	-	-	3,836,900	113,920	57,085,200	947,614
MULLET, BLACK (LISA)	-	-	3,000	238	-	-
PIGFISH	-	-	-	-	5,300	530
SCUP OR PORGY	5,300	836	-	-	2,074,800	361,735
SEA BASS, BLACK	202,300	60,744	-	-	1,430,500	306,588
SEA ROBIN	39,900	478	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY	279,600	24,084	42,700	6,341	202,600	27,723
SPOTTED	-	-	-	-	22,800	6,558
SHAD	100	5	1,038,500	107,256	15,900	1,370
SHARKS:						
GRAYFISH	13,500	677	-	-	65,900	2,170
UNCLASSIFIED	48,400	968	-	-	-	-
SPOT	45,300	8,246	527,300	72,162	500,100	59,839
STRIPED BASS	290,000	57,550	3,687,500	812,232	766,700	154,630
STURGEON, COMMON	3,600	708	400	72	20,300	3,505
SUNFISH	-	-	7,500	520	-	-
SWELLFISH	500	26	699,800	42,872	238,200	7,488
TAUTOG	500	19	-	-	100	5
TILEFISH	-	-	-	-	2,900	306
WHITE PERCH	-	-	1,661,800	267,712	-	-
WHITING	31,900	4,149	-	-	31,900	3,437
YELLOW PERCH	-	-	107,400	13,782	-	-
UNCLASSIFIED:						
FOR FOOD	200	38	7,200	842	21,600	2,210
FOR BAIT, REDUCTION, AND ANIMAL FOOD	4,400	65	-	-	120,900	1,392
CRABS, BLUE						
HARD	319,200	17,887	24,616,200	2,068,683	1,882,200	90,152
SOFT AND PEELER	4,200	1,753	1,575,600	668,216	71,600	27,020
LOBSTERS, AMERICAN	21,700	20,465	-	-	229,200	148,882
CLAMS:						
HARD, PUBLIC	521,500	287,295	45,900	29,863	908,800	598,833
SOFT, PUBLIC	-	-	6,221,300	2,433,724	-	-
SURF	13,681,200	1,474,777	-	-	888,700	110,025
CONCHS	277,300	64,380	-	-	20,600	2,808
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	4,359,600	2,640,097	50,300	33,502
FALL	-	-	11,586,500	6,421,483	18,100	11,502
PRIVATE:						
SPRING	104,000	182,000	338,800	195,639	372,300	241,552
FALL	68,000	127,500	168,300	86,779	314,000	199,533
SCALLOPS, SEA	-	-	-	-	750,400	994,957
SQUID	9,800	1,607	-	-	421,700	25,110
TERRAPIN	-		3,300	1,240	5,000	2,656
TURTLES, SNAPPER		-	80,600	15,650	-	-
TOTAL	16,410,900	2,434,566	63,485,800	16,131,428	72,211,100	5,140,783

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE STATES - LANDINGS OF CATCH BY WATERS, 1970 - Continued

SPECIES	VIRGINIA - CONTINUED		TOTAL			
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	19,045,700	392,615	-	-	21,110,300	444,199
BLUEFISH	583,100	54,601	74,100	7,528	640,900	60,850
BONITO	2,900	290	-	-	2,900	290
BUTTERFISH	402,000	43,191	1,212,100	160,491	402,200	43,211
CABIO	1,900	248	-	-	1,900	248
CARP	51,000	1,340	-	-	221,400	6,251
CATFISH AND BULLHEADS	1,134,800	171,184	-	-	1,339,600	193,905
COD	-	-	7,500	756	-	-
CRAPPIE	-	-	-	-	6,400	447
CROAKER	121,200	14,805	6,700	686	121,300	14,834
DRUM:						
BLACK	17,200	1,362	55,300	4,311	24,800	1,836
RED	100	6	-	-	100	6
EEL, COMMON	1,204,900	261,348	700	14	1,492,900	300,008
FLOUNDERS:						
BLACKBACK	57,300	4,934	84,300	6,933	59,600	5,139
FLUKE	146,800	35,664	2,362,500	665,796	153,700	37,714
UNCLASSIFIED	-	-	15,400	831	-	-
GARFISH	5,300	153	-	-	5,300	153
GIZZARD SHAD	5,100	151	-	-	14,400	367
HAKE:						
RED	400	20	11,800	474	400	20
WHITE	-	-	200	20	-	-
HARVESTFISH	31,100	4,786	-	-	31,100	4,786
HERRING, SEA	10,100	202	600	11	10,100	202
HICKORY SHAD	23,900	1,804	-	-	70,000	5,890
HOGCHOKER	-	-	-	-	3,100	62
KING WHITING OR "KINGFISH"	64,800	7,214	36,100	4,678	65,800	7,382
MACKEREL:						
ATLANTIC	34,500	1,715	241,700	12,444	34,500	1,715
KING	3,400	680	1,800	462	3,400	680
SPANISH	199,900	30,519	200	25	201,000	30,742
MENHADEN	388,874,700	6,575,967	57,085,200	947,614	392,711,600	6,689,887
MULLET, BLACK (LISA)	500	50	-	-	3,500	288
PIGFISH	17,100	940	5,300	530	17,100	940
POMPANO	1,000	480	-	-	1,000	480
SCUP OR PORGY	1,000	150	2,080,100	362,571	1,000	150
SEA BASS, BLACK	51,900	14,547	1,632,800	367,332	51,900	14,547
SEA ROBIN	-	-	39,900	478	-	-
SEA TROUT OR WEAKFISH:						
GRAY	1,939,200	225,240	482,200	51,807	1,981,900	231,581
SPOTTED	43,100	11,907	22,800	6,558	43,100	11,907
SHAD	4,095,900	313,672	16,000	1,375	5,134,400	420,928
SHARKS:						
GRAYFISH	8,600	295	79,400	2,847	8,600	295
UNCLASSIFIED	5,000	100	48,400	968	5,000	100
SPOT	5,372,700	487,094	545,400	68,085	5,900,000	559,256
STRIPED BASS	1,014,800	216,820	1,056,700	212,180	4,702,300	1,029,052
STURGEON, COMMON	1,900	375	23,900	4,213	2,300	447
SUNFISH	-	-	-	-	7,500	520
SWELLFISH	583,400	14,970	238,700	7,514	1,283,200	57,842
TAUTOG	100	5	600	24	100	5
TILEFISH	-	-	2,900	306	-	-
WHITE PERCH	263,600	34,801	-	-	1,925,400	302,513
WHITING	200	34	63,800	7,586	200	34
YELLOW PERCH	3,100	377	-	-	110,500	14,159
UNCLASSIFIED:						
FOR FOOD	47,500	4,685	21,800	2,248	54,700	5,527
FOR BAIT, REDUCTION, AND ANIMAL FOOD	3,613,300	51,895	125,300	1,457	3,613,300	51,895
CRABS, BLUE:						
HARD	40,534,100	2,297,832	2,201,400	108,039	65,150,300	4,366,515
SOFT AND PEELER	838,100	310,960	75,800	28,773	2,413,700	979,176
LOBSTERS, AMERICAN	-	-	250,900	169,347	-	-
CLAMS:						
HARD:						
PUBLIC	348,100	225,213	1,430,300	886,128	394,000	255,076
PRIVATE	73,800	47,549	-	-	73,800	47,549
SOFT, PUBLIC	-	-	-	-	6,221,300	2,433,724
SURF	-	-	14,569,900	1,584,802	-	-
CONCHS	70,400	7,397	297,900	67,188	70,400	7,397

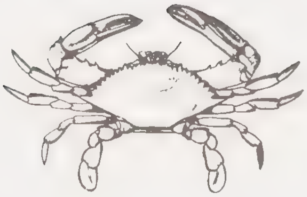
SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

CHESAPEAKE STATES - LANDINGS OF CATCH BY WATERS, 1970 - Continued

SPECIES	VIRGINIA - CONTINUED		TOTAL			
	CHESAPEAKE BAY		OCEAN 1/		CHESAPEAKE BAY	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET:						
PUBLIC:						
SPRING	812,900	564,534	50,300	33,502	5,172,500	3,204,631
FALL	2,229,300	1,466,306	18,100	11,502	13,815,800	7,887,789
PRIVATE:						
SPRING	2,232,200	1,582,177	476,300	423,552	2,571,000	1,777,816
FALL	2,014,200	1,327,834	382,000	327,033	2,182,500	1,414,613
SCALLOPS, SEA	-	-	750,400	994,957	-	-
SQUID	-	-	431,500	26,717	-	-
TERRAPIN	-	-	5,000	2,656	3,300	1,240
TURTLES, SNAPPER	102,500	23,585	-	-	183,100	39,235
TOTAL	478,341,600	16,836,623	88,622,000	7,575,349	541,827,400	32,968,051

1/ INCLUDES BAYS AND CREEKS, EXCLUSIVE OF CHESAPEAKE BAY, WHICH DRAIN INTO THE ATLANTIC OCEAN.



BLUE CRAB

CHESAPEAKE FISHERIES

POTOMAC RIVER SHAD AND ALEWIFE FISHERY

Shad landings in the Potomac River were 159,841 fish weighing 406,000 pounds worth $39,909 to the fishermen--an increase of 34 percent in both number and poundage, and 71 percent in value compared with 1969. The harvest was the best since 1965. Maryland landings of 235,800 pounds were the largest since 1932.

Landings of alewives in the Potomac River were 13.6 million fish weighing 6.2 million pounds valued at $141,542--a gain of 89 percent in number, 80 percent in poundage, and 105 percent in value compared with 1969.

In 1970, 275 fishermen participated in the Potomac River shad and alewife fisheries--120 less than in the previous year.

Statistics on operating units and landings of these fisheries are included in operating units and landings data for Maryland and Virginia.

SUMMARY OF OPERATING UNITS AND LANDINGS, 1970

ITEM	MARYLAND			VIRGINIA			TOTAL		
OPERATING UNITS	NUMBER								
FISHERMEN:									
ON VESSELS.	-			98			98		
ON BOATS AND SHORE:									
REGULAR .	26			93			119		
CASUAL. .	33			25			58		
TOTAL .	59			216			275		
VESSELS,									
MOTOR. . . .	-			23			23		
GROSS TONNAGE . . .	-			187			187		
BOATS:									
MOTOR . . .	43			59			102		
OTHER . . .	11			24			35		
GEAR:									
POUND NETS.	2			40			42		
GILL NETS:									
ANCHOR, SET, OR STAKE. .	85			61			146		
SQUARE YARDS.	103,900			72,400			176,300		
DRIFT . .	2			3			5		
SQUARE YARDS.	2,100			3,700			5,800		
LANDINGS-	NUMBER	POUNDS	DOLLARS	NUMBER	POUNDS	DOLLARS	NUMBER	POUNDS	DOLLARS
SHAD:									
POUND NETS.	2,362	6,000	655	44,685	113,500	7,945	47,047	119,500	8,600
GILL NETS:									
ANCHOR, SET OR STAKE. .	89,488	227,300	25,829	20,039	50,900	4,758	109,527	278,200	30,587
DRIFT . .	984	2,500	272	2,283	5,800	450	3,267	8,300	722
TOTAL .	92,834	235,800	26,756	67,007	170,200	13,153	159,841	406,000	39,909
ALEWIVES:									
POUND NETS.	53,020	24,100	482	13,493,700	6,133,500	140,457	13,546,720	6,157,600	140,939
GILL NETS:									
ANCHOR, SET, OR STAKE. .	26,400	12,000	240	30,140	13,700	325	56,540	25,700	565
DRIFT . .	-	-	-	3,080	1,400	38	3,080	1,400	38
TOTAL .	79,420	36,100	722	13,526,920	6,148,600	140,820	13,606,340	6,184,700	141,542

NOTE:--EXCLUDES TRIBUTARIES OF THE POTOMAC RIVER.

SECTION 5 - SOUTH ATLANTIC FISHERIES

Commercial landings of fish and shellfish at ports of the South Atlantic States (North Carolina, South Carolina, Georgia, and the East Coast of Florida), including the commercial catch from fresh-water areas of Florida, where 280.2 million pounds worth $29.8 million--a decline of 12 percent in volume and 18 percent in value compared with 1969. A sharp decrease in landings of menhaden and shrimp was a major factor in the decline.

North Carolina led all States with landings of 173.4 million pounds--21 percent less than in 1969 and the smallest production since 1951. Compared with 1969, South Carolina landings of 16.1 million pounds declined 22 percent and Georgia landings (14.4 million) declined 8 percent. Landings along the East Coast of Florida, however, increased from 63.4 million pounds in 1969 to 76.3 million in 1970, but the exvessel value of $12.0 million remained about the same as in the previous year. The value in all other States declined sharply compared with 1969. The value of North Carolina landings ($9.4 million) declined 25 percent; South Carolina ($4.3 million) declined 19 percent; and Georgia ($4.1 million) declined 36 percent.

Fishermen and vessels. Commercial fishermen numbered 8,881 in 1970--483 less than in 1969. A decrease in the number of full-time fishermen in the shore and boat fishery from 3,320 in 1969 to 2,781 in 1970 was the principal cause of the decline. The number of fishermen employed on vessels, however, increased from 3,339 in 1969 to 3,397 in 1970. The number of vessels (craft 5 net tons or more) also increased to 1,211 in 1970--a gain of 25 compared with 1969.

According to records of the U.S. Department of Transportation, 76 vessels with South Atlantic home ports received first documents as fishing craft in 1970. Of this number, 68 were newly constructed. Forty-six of the hulls were built of wood, 16 were of fiberglass, 5 of steel, and 1 of concrete. More than 20 percent of the new fishing vessels entered the shrimp fishery in the Gulf of Mexico for part of the year. Owners of several vessels made them available to sportfishermen as charter fishing craft.

Menhaden. Landings of 136.3 million pounds were 17 percent less than in 1969 and the smallest production since 1932. The decline was caused by an unusually poor season in the North Carolina fall and winter fishery. The weather was favorable for fishing, but the fish were not on the grounds in their usual numbers. Consequently the North Carolina landings of 108.2 million pounds were 37.0 million pounds less than in 1969. A small production in South Carolina also declined sharply. Farther south, landings along the East Coast of Florida were 28.0 million pounds--44 percent greater than in the previous year.

Food finfish. Landings of finfish used principally for human consumption were 67.0 million pounds--compared with 71.4 million in 1969. The exvessel value of $8.9 million was slightly less than in 1969.

Landings of several species declined in 1970. The principal decline was in alewife landings of 11.6 million pounds--10.1 million (47 percent) less than in 1969 and the smallest production since 1964. In North Carolina, the major production area, landings of 11.5 million pounds declined 42 percent compared with 1969. South Carolina landings declined sharply, probably because of unusually low water in the Tail Race Canal of the Cooper River at the time of migration. Croaker landings of 886,000 pounds were 38 percent less than in 1969 and the smallest production since 1918. Compared with 1969, landings of mullet (4.3 million pounds) declined 5 percent and shad (1.9 million) declined 3 percent. As the fish were abundant in coastal waters, it appeared that lack of a good market for them accounted largely for the volume decline. Other species with reduced catches included bluefish and catfish and bullheads.

The production of several major species increased in 1970. King mackerel landings were a record 4.4 million pounds--a gain of 47 percent compared with 1969. Fishermen received an average price of 23 cents per pound for king mackerel--3 cents more than in 1969. Spanish mackerel fishermen also had a good year--landings of 3.6 million pounds were 48 percent greater than in 1969. The average price per pound increased from 11 cents in 1969 to 13 cents in 1970. Gray and spotted sea trout landings of 3.9 million pounds increased 51 percent compared with 1969. Landings of flounders, king whiting, red snapper, sea bass, shad and spot also increased moderately.

SOUTH ATLANTIC FISHERIES

Hard blue crabs. The 42.7-million-pound landings were 3 percent more than in 1969 and the best production since 1965. Fishermen in both North and South Carolina made unusually good catches during the first quarter of the year, but, as the season progressed, catches declined below the comparable periods of 1969. North Carolina landings of 20.9 million pounds and South Carolina landings of 7.0 million were both 1.3 million pounds less than in the previous year. Offsetting this decline, Georgia landings of 7.1 million pounds increased 38 percent and Florida, East Coast landings (7.8 million) increased 36 percent compared with 1969. In Georgia, officials closed St. Simons Sound to fishing because mercury contamination was discovered there. A considerable number of crab fishermen were affected adversely by the closure.

Shrimp. Landings of 20.6 million pounds (heads-on) worth $11.4 million declined 6.7 million pounds (25 percent) and $4.8 million (30 percent) compared with 1969. Exvessel prices were generally lower than in the previous year. The average price per pound was 55 cents--4 cents less than in 1969. Jumbo and large shrimp (under 15 to 30 tails per pound) were 46 percent of the total landings--compared with 31 percent in 1969. The decline in the average exvessel price paid for each size ranged from 7 to 14 cents per pound compared with 1969.

North Carolina landings of 5.1 million pounds were 2.8 million less than the exceptionally good production of the previous year. Landings of brown shrimp declined 35 percent and pink shrimp, 50 percent compared with 1969. White shrimp landings, however, were 36 percent greater than in 1969 and the best production since 1966. In September, white shrimp appeared in the waters of Pamlico Sound for the first time since 1953.

Compared with 1969, South Carolina landings of 5 million pounds declined 15 percent and Georgia landings of 6 million declined 29 percent. The fall white shrimp season was poor, and production was down 33 percent in South Carolina and 34 percent in Georgia. Brown shrimp landings, however, increased 52 percent in South Carolina and 13 percent in Georgia--probably because of a good spring and summer run in both States. Florida, East Coast landings (4.6 million pounds) were 11 percent less than in 1969. As in South Carolina and Georgia, a poor white shrimp season in the fall was a major factor in the decline. In North Carolina, the average price per pound declined sharply from 57 cents in 1969 to 49 cents in 1970. In both South Carolina and Georgia, fishermen received an average price of 59 cents per pound in 1969; but in 1970 the average price in South Carolina was 58 cents per pound and in Georgia, 56 cents. In Florida, East Coast, the average price per pound was 57 cents--7 cents less than in 1969.

Spiny lobsters. Landings of 3.1 million pounds were 760,000 pounds (20 percent) less than the record production of 1969. In that year, United States fishermen made catches in waters off the Bahama Islands that contributed substantially to the record landings. In 1970, however, the Bahamian Government had established a 12-mile territorial sea limit before the fishing season began. The restriction kept some U.S. fishermen from their accustomed fishing areas and accordingly curtailed production. In addition, the State of Georgia, acting to assist Florida in the management of its spiny lobster fishery, prohibited lobster landings in Georgia from April 1 to August 31. Florida legislation already prohibited landings, regardless of origin of the catches, during the closed season.

With landings prohibited in both Georgia and Florida ports during the closed season, a few vessels made small landings of spiny lobsters at South Carolina ports. In 1970, fishermen received an average price of 61 cents per pound--compared with 69 cents in 1969.

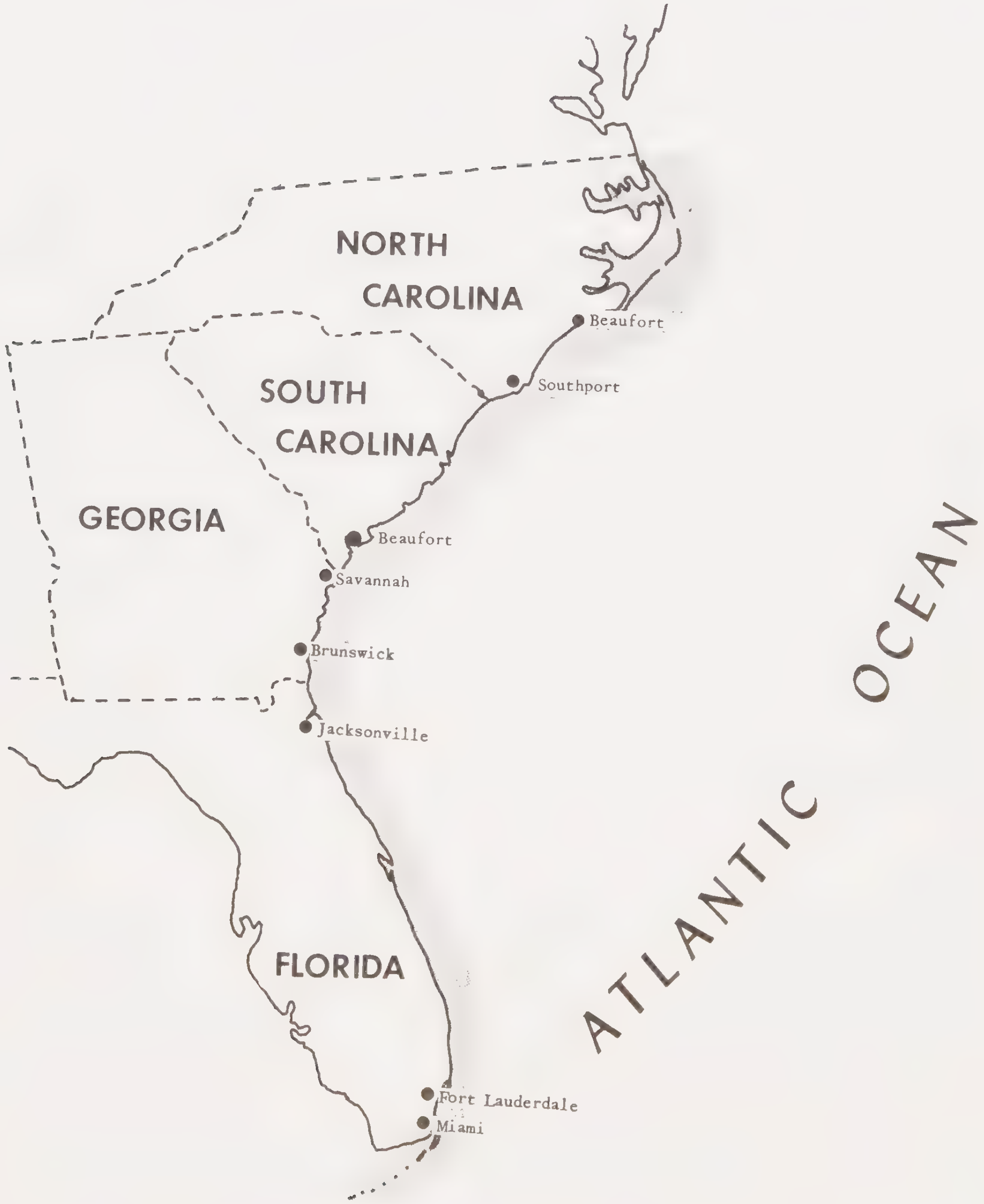
Calico scallops. Landings of 1.8 million pounds of meats worth $729,000 increased 1.6 million pounds and $556,000 compared with 1969. North Carolina accounted for 86 percent of the landings. It was the first time in 2 years that fishermen had been able to locate calico scallops in sufficient quantities in North Carolina waters to provide good fishing. Catches were consistently good throughout the year. Landings might have increased if enough workers (principally shuckers) had been available in the processing plants to handle the greater volume. The two new vessels that were completely mechanized for processing their catches of calico scallops at sea fished off both North Carolina and Florida.

Oysters. The production of 1.6 million pounds of meats was 11 percent less than in 1969--continuing the downward trend that began in 1966. Landings were the smallest recorded since 1880. The value was $974,000--a decline of 10 percent compared with 1969. North Carolina was the only State with landings greater than in 1969, but the increase was only 13,000 pounds. In October, more oyster grounds became available when the Newport River was reopened to oyster fishermen. They found it difficult, however, to market the oysters taken there because most prospective buyers were aware that the oyster grounds had been closed the previous year because of pollution and were often unwilling to buy them. In South Carolina, always the leading producer in the South Atlantic States, landings of 852,000 pounds were the smallest since 1945 when 722,100 pounds were landed. In March and April, oysters were scarce and the South Carolina Wildlife Resources Department extended the spring season from April 30 to May 15. Landings did not improve, however, because few oysters were available on the grounds. Compared with 1969, landings in Georgia (179,000 pounds) declined 30 percent and in Florida, East Coast (212,000 pounds), 12 percent.

Other information. Seasonal variation in landings of fish and shellfish in North Carolina, South Carolina, Georgia, and Florida can be ascertained from the monthly and annual landings bulletins published in the Current Fishery Statistics Series by the Statistics and Market News Division in cooperation with the respective States. Additional data on many aspects of the South Atlantic fisheries may be found in the daily, monthly, and annual reports published by the NMFS Fishery Market News Service in New Orleans, La.

Acknowledgments. The following organizations helped collect the data appearing in this section: North Carolina Department of Conservation and Development, Division of Commercial Fisheries; South Carolina Wildlife Resources Department, Division of Commercial Fisheries; Georgia Game and Fish Commission, Coastal Fisheries Division; and Florida State Board of Conservation.

SOUTH ATLANTIC FISHERIES


NORTH CAROLINA
SOUTH CAROLINA
GEORGIA
FLORIDA
ATLANTIC OCEAN
Beaufort
Southport
Beaufort
Savannah
Brunswick
Jacksonville
Fort Lauderdale
Miami

SOUTH ATLANTIC STATES

SOUTH ATLANTIC FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
NORTH CAROLINA.	145	5	28	5	173	9
SOUTH CAROLINA.	3	(1)	13	4	16	4
GEORGIA	1	(1)	13	4	14	4
FLORIDA, EAST COAST	60	6	16	6	76	12
TOTAL	209	12	71	18	280	30

1/ LESS THAN $500,000.

NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING. LANDINGS FOR THE INLAND LAKES OF FLORIDA ARE INCLUDED WITH THE LANDINGS FOR THE EAST COAST OF FLORIDA. FOR THE PURPOSE OF THIS REPORT, THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE.

SUMMARY OF OPERATING UNITS, 1970

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN:					
ON VESSELS.	1,682	609	633	1,012	3,397
ON BOATS AND SHORE:					
REGULAR	1,096	227	215	1,243	2,781
CASUAL.	1,336	431	459	477	2,703
TOTAL	4,114	1,267	1,307	2,732	8,881
VESSELS, MOTOR.	475	295	312	386	1,211
GROSS TONNAGE	24,674	11,000	13,060	17,212	53,564
BOATS:					
MOTOR	2,311	440	542	1,437	4,730
OTHER	86	6	85	34	211
GEAR:					
HAUL SEINES:					
COMMON.	78	9	-	16	103
LENGTH, YARDS	29,614	2,600	-	9,200	41,414
LONG.	34	-	-	-	34
LENGTH, YARDS	45,150	-	-	-	45,150
PURSE SEINES:					
MENHADEN.	41	-	-	2	43
LENGTH, YARDS	16,400	-	-	866	17,266
OTHER	1	-	-	4	5
LENGTH, YARDS	300	-	-	800	1,100
BAG NETS.	80	-	-	-	80
YARDS AT MOUTH.	2,000	-	-	-	2,000
OTTER TRAWLS:					
CRAB.	334	-	117	-	449
YARDS AT MOUTH. . . .	4,292	-	1,864	-	6,125
FISH.	126	7	2	-	133
YARDS AT MOUTH. . . .	2,641	178	28	-	2,794
SCALLOP	17	-	-	6	22
YARDS AT MOUTH. . . .	209	-	-	64	262
SHRIMP.	1,076	593	878	477	2,542
YARDS AT MOUTH. . . .	15,155	10,657	13,154	7,698	38,846
POUND NETS, FISH.	838	-	-	3	841
FYKE AND HOOP NETS, FISH.	57	-	-	240	297
POTS AND TRAPS:					
CRAB:					
BLUE.	26,655	8,170	7,790	27,900	70,515
OTHER	-	-	-	3,200	3,200
EEL	248	-	-	120	368
FISH.	3,676	1,637	337	13,720	19,345
LOBSTER, SPINY.	-	500	-	69,050	69,550
GILL NETS:					
ANCHOR, SET, OR STAKE. .	1,898	9	1	28	1,936
SQUARE YARDS.	1,208,410	13,698	610	15,200	1,237,918
DRIFT:					
SHAD.	38	22	341	8	409
SQUARE YARDS. . . .	10,000	2,900	161,228	8,000	182,128
OTHER	13	-	-	-	13
SQUARE YARDS. . . .	3,500	-	-	-	3,500
RUNAROUND	53	-	-	250	303
SQUARE YARDS.	35,825	-	-	373,350	409,175

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
GEAR - CONTINUED:					
TRAMMEL NETS.	-	-	-	10	10
SQUARE YARDS.	-	-	-	12,000	12,000
LINES:					
HAND.	610	19	24	588	1,237
HOOKS	705	38	48	911	1,694
TROLL	18	-	-	464	482
HOOKS	18	-	-	464	482
LONG OR SET WITH HOOKS.	116	61	164	840	1,181
HOOKS	11,600	5,950	16,100	645,400	679,050
TROT WITH BAITS	110	8	-	-	118
BAITS	74,900	3,200	-	-	78,100
DIP NETS:					
COMMON.	17	-	-	-	17
DROP.	10	41	-	-	51
CAST NETS	-	-	-	17	17
SPEARS.	86	-	-	-	86
DREDGES:					
CLAM.	22	-	-	-	22
YARDS AT MOUTH.	28	-	-	-	28
OYSTER, COMMON.	143	-	-	4	147
YARDS AT MOUTH.	195	-	-	3	198
SCALLOP:					
BAY	151	-	-	-	151
YARDS AT MOUTH.	151	-	-	-	151
SEA	4	-	2	4	6
YARDS AT MOUTH.	10	-	5	14	19
TONGS AND GRABS:					
OYSTER.	246	112	20	38	416
OTHER	45	-	-	2	47
RAKES:					
OYSTER.	88	-	-	-	88
OTHER	156	37	7	10	210
HOOKS, SPONGE	-	-	-	37	37
DIVING OUTFITS.	-	-	-	2	2

NOTE:--THE OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA ARE INCLUDED WITH THE DATA FOR THE EAST COAST OF FLORIDA.

LANDINGS BY STATES, 1970

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES.	11,521	194	100	2	-	-
BLUEFISH.	496	42	9	1	-	-
BUTTERFISH.	133	11	-	-	-	-
CABIO	7	(1)	-	-	-	-
CARP.	90	3	1	(1)	1	(1)
CATFISH AND BULLHEADS	1,996	287	439	66	100	24
CROAKER	807	38	3	(1)	9	1
DRUM:						
BLACK	23	1	1	(1)	7	1
RED	8	1	(1)	(1)	2	(1)
EEL, COMMON	16	1	22	3	5	1
FLOUNDERS	3,163	780	16	3	37	6
GROUPERS.	-	-	14	2	49	8
GRUNTS.	3	(1)	3	(1)	-	-
HARVESTFISH	27	3	-	-	-	-
HERRING, THREAD	5,161	84	-	-	-	-
HICKORY SHAD.	61	3	3	1	5	1
KING WHITING OR "KINGFISH".	563	74	95	11	146	15
MACKEREL:						
KING.	12	3	(1)	(1)	1	(1)
SPANISH	63	9	2	(1)	(1)	(1)
MENHADEN.	108,235	1,570	10	(1)	-	-
MULLET, BLACK (LISA).	1,123	59	859	17	-	-
PIGFISH	181	14	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
POMPANO	4	1	(1)	(1)	1	(1)
SAND PERCH.	2	(1)	-	-	-	-
SCUP OR PORGY	212	27	290	30	7	1
SEA BASS.	1,178	229	773	165	11	3
SEA TROUT OR WEAKFISH:						
GRAY.	2,441	145	4	(1)	(1)	(1)
SPOTTED	405	108	9	2	10	2
SHAD.	953	193	148	39	532	140
SHARKS, UNCLASSIFIED. . . .	3	(1)	4	(1)	-	-
SHEEPSHEAD, SALT-WATER. . .	2	(1)	2	(1)	1	(1)
SNAPPERS, RED	(1)	(1)	12	8	16	11
SPADEFISH	2	(1)	-	-	-	-
SPOT.	1,529	142	368	37	9	1
STRIPED BASS.	2,318	479	-	-	2	(1)
STURGEON, COMMON.	120	19	6	1	4	1
SUCKERS	-	-	(1)	(1)	5	1
SWELLFISH	117	5	-	-	-	-
WHITE PERCH	211	30	-	-	-	-
YELLOW PERCH.	43	6	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	1,748	9	-	-	108	[illegible]
TOTAL FISH.	144,977	4,570	3,193	388	1,068	223
SHELLFISH ET AL.						
CRABS, BLUE:						
HARD.	20,880	1,238	[illegible]	[illegible]	7,092	426
SOFT AND PEELER	60	23	-	-	-	-
TOTAL CRABS	20,940	1,261	[illegible]	[illegible]	7,092	426
LOBSTERS:						
AMERICAN.	[illegible]		-	-	-	-
SPINY	-	-	33	21	-	-
SHRIMP.	5,054	2,493	[illegible]	[illegible]	[illegible]	[illegible]
CLAMS:						
HARD, PUBLIC.	[illegible]	157	87	40	[illegible]	[illegible]
RANGIA.	54	16	-	-	-	-
TOTAL CLAMS	[illegible]	173	87	40	[illegible]	[illegible]
OCTOPUS	(1)	(1)	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	141	99	-	-	-	-
FALL.	157	108	-	-	-	-
PRIVATE:						
SPRING.	16	11	520	[illegible]	136	[illegible]
FALL.	49	51	332	188	43	24
TOTAL OYSTERS	363	269	852	[illegible]	179	100
SCALLOPS:						
BAY	130	91	-	-	-	-
CALICO.	1,574	499	-	-	[illegible]	34
TOTAL SCALLOPS. . . .	1,704	590	-	-	[illegible]	34
SQUID	21	1	-	-	-	-
TURTLES, SNAPPER.	22	3	-	-	-	-
TOTAL SHELLFISH ET AL..	28,465	4,795	12,873	3,880	13,347	3,940
GRAND TOTAL	173,442	9,365	16,066	4,268	14,415	4,163

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	FLORIDA, EAST COAST		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	-	-	11,621	196
AMBERJACK	39	2	39	2
ANGELFISH	11	(1)	11	(1)
BALLYHOO	159	37	159	37
BLUEFISH	2,046	224	2,551	267
BLUE RUNNER	89	4	89	4
BONITO	7	1	7	1
BUTTERFISH	-	-	133	11
CABIO	14	2	21	2
CARP	-	-	92	3
CATFISH AND BULLHEADS	11,650	2,194	14,185	2,571
CREVALLE	60	2	60	2
CROAKER	67	15	886	54
DOLPHIN	21	5	21	5
DRUM:				
BLACK	113	11	144	13
RED	147	29	157	30
EEL, COMMON	30	3	73	8
FLOUNDERS	181	41	3,397	830
GOATFISH	75	14	75	14
GROUPERS	635	135	698	145
GRUNTS	45	5	51	5
HARVESTFISH	-	-	27	3
HERRING, THREAD	-	-	5,161	84
HICKORY SHAD	-	-	69	[illegible]
HOGFISH	3	1	3	1
JEWFISH	21	3	21	3
KING WHITING OR "KINGFISH"	1,291	152	2,095	252
MACKEREL:				
KING	4,338	1,015	4,351	1,018
SPANISH	3,574	459	3,639	468
MENHADEN	28,008	370	136,253	1,940
MOJARRA	118	9	118	9
MULLET:				
BLACK (LISA)	2,034	157	4,016	233
SILVER	322	36	322	36
PERMIT	3	1	3	1
PIGFISH	14	1	195	15
POMPANO	243	293	248	294
SAND PERCH	-	-	2	(1)
SCUP OR PORGY	66	11	575	69
SEA BASS	62	16	2,024	413
SEA CATFISH	11	(1)	11	(1)
SEA TROUT OR WEAKFISH:				
GRAY	292	46	2,737	191
SPOTTED	711	230	1,135	342
SHAD	218	43	1,851	415
SHARKS, UNCLASSIFIED	3	(1)	10	(1)
SHEEPSHEAD, SALT-WATER	219	22	224	22
SNAPPERS:				
LANE	6	2	6	2
MANGROVE	90	31	90	31
MUTTON	162	82	162	82
RED	575	383	603	402
VERMILION	20	10	20	10
YELLOWTAIL	209	85	209	85
SPADEFISH	-	-	2	(1)
SPOT	1,398	229	3,304	409
STRIPED BASS	-	-	2,320	479
STURGEON, COMMON	-	-	130	21
SUCKERS	-	-	5	1
SWELLFISH	-	-	117	5
TILEFISH	6	1	6	1
TRIGGERFISH	2	(1)	2	(1)
TRIPLETAIL	7	1	7	1
WARSAW	35	7	35	7
WHITE PERCH	-	-	211	30
YELLOW PERCH	-	-	43	[illegible]
UNCLASSIFIED:				
FOR FOOD	312	26	312	26
FOR BAIT, REDUCTION, AND ANIMAL FOOD	350	8	2,206	23
TOTAL FISH	60,112	6,454	209,350	11,635

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	FLORIDA, EAST COAST		TOTAL	
SHELLFISH ET AL.	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CRABS:				
BLUE:				
HARD.	7,779	651	42,701	2,772
SOFT AND PEELER	(1)	(1)	60	23
STONE	112	70	112	70
TOTAL CRABS	7,891	721	42,873	2,865
LOBSTERS:				
AMERICAN.	-	-	5	5
SPINY	3,018	1,830	3,051	1,851
SHRIMP.	4,608	2,645	20,609	11,388
CLAMS:				
HARD, PUBLIC.	51	28	437	232
RANGIA.	-	-	54	16
TOTAL CLAMS	51	28	491	248
OCTOPUS	-	-	(1)	(1)
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	12	7	153	106
FALL.	7	4	164	112
PRIVATE:				
SPRING.	122	71	[illegible]	455
FALL.	71	[illegible]	[illegible]	301
TOTAL OYSTERS	212	120	[illegible]	974
SCALLOPS:				
BAY	-	-	130	91
CALICO.	[illegible]	[illegible]	1,833	729
TOTAL SCALLOPS. . . .	[illegible]	[illegible]	[illegible]	820
SQUID	[illegible]	1	[illegible]	2
TURTLES:				
GREEN, SEA.	8	1	8	1
LOGGERHEAD.	4	1	4	1
SNAPPER	-	-	22	3
SOFT-SHELL.	127	11	127	11
TOTAL TURTLES	139	13	161	16
SPONGES:				
GRASS	4	[illegible]	4	[illegible]
SHEEPSWOOL.	4	25	4	25
YELLOW.	3	5	3	5
TOTAL SHELLFISH ET AL..	16,132	5,590	70,817	18,205
GRAND TOTAL	[illegible]	12,044	280,167	29,640

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS, IN WEIGHT OF EDIBLE MEATS.

SOUTH ATLANTIC FISHERIES

LANDINGS OF CERTAIN SHELLFISH, 1970

SPECIES	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA		FLORIDA, EAST COAST		TOTAL	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:										
HARD, PUBLIC.	32,217	157,208	9,989	39,502	1,908	6,660	6,411	27,955	50,525	231,325
RANGIA.	6,618	16,360	-	-	-	-	-	-	6,618	16,360
OYSTERS, MARKET:										
PUBLIC:										
SPRING.	27,379	98,616	-	-	-	-	2,921	6,900	30,300	105,516
FALL.	34,065	108,464	-	-	-	-	1,944	3,700	36,009	112,164
PRIVATE:										
SPRING.	3,008	10,837	189,127	297,004	36,293	76,453	28,441	70,983	256,869	455,277
FALL.	14,393	51,202	135,510	187,853	17,040	23,894	19,722	37,530	186,665	300,479
SCALLOPS:										
BAY	21,694	91,087	-	-	-	-	-	-	21,694	91,087
CALICO.	385,740	498,482	-	-	17,248	34,375	55,943	195,764	458,931	728,621

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN SHELLFISH, 1970

SPECIES	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST
	-POUNDS OF MEATS PER U.S. STANDARD BUSHEL-			
CLAMS:				
HARD, PUBLIC.	8.75	8.75	8.75	8.00
RANGIA.	6.10	-	-	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	5.15	-	-	4.28
FALL.	4.60	-	-	3.60
PRIVATE:				
SPRING.	5.32	2.75	3.75	4.29
FALL.	4.78	2.45	2.50	3.60
SCALLOPS:				
BAY	6.00	-	-	-
CALICO.	4.08	-	3.67	3.50

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

SOUTH ATLANTIC FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	NORTH CAROLINA		SOUTH CAROLINA	
		QUANTITY	VALUE	QUANTITY	VALUE
ALEWIVES:					
FRESH AND FROZEN:					
FOR BAIT	POUNDS	1,260,500	61,610	100,000	4,000
FILLETS	DO	(1)	(1)	-	-
CANNED:					
FISH	STANDARD CASES	(1)	(1)	-	-
ROE	DO	(1)	(1)	-	-
SALTED	POUNDS	908,000	150,810	-	-
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OIL	1000 LBS	(1)	(1)	-	-
BLUEFISH FILLETS, FRESH AND FROZEN	POUNDS	(1)	(1)	-	-
CATFISH, DRESSED, SKINS OFF, FRESH AND FROZEN	DO	(1)	(1)	377,500	149,325
CHUBS, SMOKED	DO	-	-	-	-
EELS, DRESSED, SKINS OFF, FROZEN	DO	-	-	(1)	(1)
FLOUNDER:					
DRESSED FROZEN	DO	39,860	19,213	-	-
FILLETS, FRESH AND FROZEN	DO	(1)	(1)	(1)	(1)
BREADED RAW, FROZEN:					
FILLETS	DO	(1)	(1)	-	-
STEAKS	DO	(1)	(1)	-	-
SPECIALTIES (STUFFED)	DO	(1)	(1)	-	-
HERRING:					
THREAD:					
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OIL	1000 LBS	(1)	(1)	-	-
MENHADEN:					
MEAL AND SCRAP	TONS	11,378	2,079,274	-	-
OIL	1000 LBS	38,479	314,237	-	-
SOLUBLES	TONS	4,810	227,433	-	-
MULLET:					
ROE, FRESH	POUNDS	(1)	(1)	-	-
SALTED:					
SPLIT FOR CURING	DO	(1)	(1)	-	-
ROE	DO	(1)	(1)	-	-
SEA TROUT FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SPANISH MACKEREL FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SPOT:					
DRESSED, FROZEN	DO	(1)	(1)	(1)	(1)
SALTED, SPLIT FOR CURING	DO	(1)	(1)	-	-
STRIPED BASS FILLETS, FRESH	DO	(1)	(1)	-	-
CRABS, BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	2,634,459	5,179,489	533,710	1,350,519
SPECIALTIES (DEVILED, CAKES, SOFT SHELL, AU-GRATIN, COCKTAILS, ETC.)	DO	107,746	105,147	-	-
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	(1)	(1)
SPECIALTIES (SOUPS)	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	2,802	151,308	-	-
SHRIMP:					
FRESH AND FROZEN:					
RAW, HEADLESS	DO	252,595	254,963	(1)	(1)
PEELED (INCLUDING DEVEINED), RAW	DO	-	-	(1)	(1)
BREADED, RAW AND COOKED	DO	(1)	(1)	-	-
SPECIALTIES (BURGERS, COCKTAILS, CREOLES, DINNERS, STUFFED, ETC.)	DO	(1)	(1)	-	-
CLAMS:					
FRESH AND FROZEN:					
HARD:					
SHUCKED	GALLONS	(1)	(1)	-	-
IN BLOCKS	POUNDS	(1)	(1)	-	-
RANGIA:					
SHUCKED	GALLONS	(1)	(1)	-	-
IN BLOCKS	POUNDS	(1)	(1)	-	-
BREADED RAW	DO	(1)	(1)	-	-
SHELLS, CLEANED AND POLISHED	-	-	(1)	-	-

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	NORTH CAROLINA		SOUTH CAROLINA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED	GALLONS	59,949	493,624	27,573	215,545
BREADED, RAW	POUNDS	(1)	(1)	-	-
CANNED:					
REGULAR	STANDARD CASES	-	-	(1)	(1)
SPECIALTIES (STEWS)	DO	-	-	(1)	(1)
SCALLOPS:					
BAY, SHUCKED, FRESH AND FROZEN	GALLONS	20,057	189,715	-	-
CALICO:					
SHUCKED	DO	186,158	1,447,761	-	-
FROZEN IN BLOCKS	POUNDS	(1)	(1)	-	-
SEA, BREADED RAW, FROZEN	DO	(1)	(1)	-	-
SEAL SKINS, PROCESSED	-	-	-	-	6,257,251
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED FILLETS, STEAKS, PORTIONS AND OTHER FISH AND SHELLFISH	POUNDS	2,299,295	976,568	2,598,039	3,341,875
CANNED	STANDARD CASES	27,640	789,512	(1)	(1)
CURED	POUNDS	(1)	(1)	-	-
INDUSTRIAL	-	-	330,994	-	-
TOTAL	-	-	12,771,658	-	11,318,515

ITEM	UN T	GEORGIA		FLORIDA, EAST COAST	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CATFISH, DRESSED, SKINS OFF, FRESH AND FROZEN	POUNDS	-	-	(1)	(1)
CHUBS, SMOKED	DO	-	-	(1)	(1)
FLOUNDER:					
BREADED RAW, FROZEN, SPECIALTIES (STUFFED)	DO	-	-	(1)	(1)
GROUPER FILLETS:					
FROZEN	DO	-	-	(1)	(1)
BREADED RAW, FROZEN	DO	-	-	(1)	(1)
HERRING, SEA, SALTED	DO	-	-	(1)	(1)
KING MACKEREL:					
FILLETS AND STEAKS, FROZEN	POUNDS	-	-	(1)	(1)
CANNED (PASTE)	STANDARD CASES	-	-	(1)	(1)
SMOKED	POUNDS	-	-	(1)	(1)
MENHADEN:					
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
SOLUBLES	TONS	-	-	(1)	(1)
OCEAN PERCH FILLETS, BREADED, COOKED	DO	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	-	-	(1)	(1)
SALMON, SMOKED	DO	-	-	(1)	(1)
SNAPPER FILLETS, FROZEN:					
RED	DO	-	-	230,668	382,973
UNCLASSIFIED	DO	-	-	(1)	(1)
SPANISH MACKEREL FILLETS:					
FRESH AND FROZEN	DO	-	-	(1)	(1)
SPECIALTIES (IN SAUCE)	DO	-	-	(1)	(1)
STURGEON, SMOKED	DO	-	-	(1)	(1)
WHITEFISH, SMOKED	DO	-	-	(1)	(1)
CRABS, BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	933,933	1,683,209	1,202,571	2,371,814
SPECIALTIES (DEVILED, CAKES, SOFT-SHELL, AU-GRATIN, COCKTAILS, ETC.)	DO	385,643	440,626	(1)	(1)
MEAL AND SCRAP	TONS	(1)	(1)	-	-
LOBSTERS, SPINY, FRESH AND FROZEN:					
COOKED:					
MEAT	POUNDS	-	-	(1)	(1)
WHOLE	DO	-	-	1,231,416	1,182,879
TAILS, RAW	DO	(1)	(1)	999,516	2,371,098
SHRIMP:					
FRESH AND FROZEN:					
RAW, HEADLESS	DO	1,424,530	1,700,460	401,942	526,064
PEELED (INCLUDING DEVEINED):					
RAW	DO	2,434,557	3,723,415	-	-
COOKED	DO	(1)	(1)	(1)	(1)
BREADED, RAW AND COOKED	DO	14,159,840	16,023,345	13,596,448	15,195,196
SPECIALTIES (BURGERS, COCKTAILS, CREOLES, DINNERS, STUFFED, ETC.)	DO	(1)	(1)	(1)	(1)

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	GEORGIA		FLORIDA, EAST COAST	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CLAMS:					
FRESH AND FROZEN:					
HARD:					
SHUCKED	GALLONS	-	-	11,312	73,071
BREADED RAW	DO	(1)	(1)	-	-
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED	GALLONS	10,139	79,956	19,593	154,357
BREADED RAW	POUNDS	(1)	(1)	287,294	331,802
SCALLOPS:					
CALICO:					
SHUCKED	DO	(1)	(1)	(1)	(1)
BREADED, RAW AND COOKED FROZEN	DO	(1)	(1)	-	-
SEA, BREADED RAW, FROZEN	DO	-	-	432,257	628,037
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH	DO	14,900,240	10,806,473	6,045,642	7,736,502
CANNED	STANDARD CASES	-	-	(1)	(1)
CURED	POUNDS	-	-	(1)	(1)
INDUSTRIAL	-	-	(1)	-	(1)
TOTAL	-	-	34,457,484	-	30,953,793

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH. NOTE: -- SOME OF THE PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY: THEREFORE. THEY CANNOT BE CORRELATED DIRECTLY WITH THE LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	[illegible]
FROZEN	[illegible]
CANNED	3,660
CURED	2,124
INDUSTRIAL	[illegible]
TOTAL	89,502

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
NORTH CAROLINA	12,772
SOUTH CAROLINA	11,319
GEORGIA	34,457
FLORIDA, EAST COAST	30,954
TOTAL	89,502

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
NORTH CAROLINA	70	1,744	1,053	106	464	328	176	2,208	1,381
SOUTH CAROLINA	20	702	587	49	298	167	69	1,000	754
GEORGIA	16	2,074	1,633	37	262	147	53	2,336	1,780
FLORIDA, EAST COAST	45	1,330	1,168	89	249	224	134	1,579	1,392
TOTAL	151	5,850	4,441	281	1,273	[illegible]	432	7,123	5,307

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

NORTH CAROLINA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES		PURSE SEINES		BAG NETS	OTTER TRAWLS	
	COMMON	LONG	MENHADEN	OTHER		CRAB	FISH
				NUMBER			
FISHERMEN:							
ON VESSELS	-	28	692	-	-	275	283
ON BOATS AND SHORE:							
REGULAR	92	86	-	5	40	54	-
CASUAL	195	94	-	-	40	66	-
TOTAL	287	208	692	5	80	395	283
VESSELS, MOTOR	-	10	41	-	-	142	93
GROSS TONNAGE	-	79	11,649	-	-	2,924	4,767
BOATS:							
MOTOR	71	54	82	2	80	94	-
OTHER	8	73	-	-	-	-	-
GEAR:							
NUMBER	78	34	41	1	80	334	126
LENGTH, YARDS	29,614	45,150	16,400	300	-	-	-
YARDS AT MOUTH	-	-	-	-	2,000	4,292	2,641

ITEM	OTTER TRAWLS - CONTINUED		POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS		
	SCALLOP	SHRIMP			CRAB	EEL	FISH
				NUMBER			
FISHERMEN:							
ON VESSELS	49	795	2	-	30	-	102
ON BOATS AND SHORE:							
REGULAR	-	234	124	3	154	3	33
CASUAL	-	297	154	7	162	7	45
TOTAL	49	1,326	280	10	346	10	180
VESSELS, MOTOR	15	360	1	-	19	-	51
GROSS TONNAGE	867	10,794	8	-	153	-	1,045
BOATS, MOTOR	-	430	196	9	315	10	78
GEAR:							
NUMBER	17	1,076	838	57	26,655	248	3,676
YARDS AT MOUTH	209	15,155	-	-	-	-	-

ITEM	GILL NETS				LINES		
	ANCHOR, SET, OR STAKE	DRIFT		RUNAROUND	HAND	TROLL	LONG OR SET WITH HOOKS
		SHAD	OTHER				
				NUMBER			
FISHERMEN:							
ON VESSELS	9	-	-	-	-	2	-
ON BOATS AND SHORE:							
REGULAR	161	2	2	35	-	3	15
CASUAL	305	38	11	72	24	13	20
TOTAL	475	40	13	107	24	18	35
VESSELS, MOTOR	4	-	-	-	-	1	-
GROSS TONNAGE	22	-	-	-	-	12	-
BOATS, MOTOR	455	38	13	53	15	8	35
GEAR:							
NUMBER	1,898	38	13	53	610	18	116
SQUARE YARDS	1,208,410	10,000	3,500	35,825	-	-	-
HOOKS OR BAITS	-	-	-	-	705	18	11,600

ITEM	LINES - CONTINUED	DIP NETS		SPEARS	DREDGES		
	TROT WITH BAITS	COMMON	DROP		CLAM	OYSTER, COMMON	SCALLOP
							BAY
				NUMBER			
FISHERMEN:							
ON VESSELS	2	-	-	-	12	54	-
ON BOATS AND SHORE:							
REGULAR	62	-	-	19	26	69	52
CASUAL	46	17	10	67	4	50	50
TOTAL	110	17	10	86	42	173	102
VESSELS, MOTOR	2	-	-	-	8	34	-
GROSS TONNAGE	12	-	-	-	93	296	-
BOATS, MOTOR	108	17	-	86	14	109	101
GEAR:							
NUMBER	110	17	10	86	22	143	151
YARDS AT MOUTH	-	-	-	-	28	195	151
HOOKS OR BAITS	74,900	-	-	-	-	-	-

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - OPERATING UNITS BY GEAR, 1970 - Continued

ITEM	DREDGES - CONTINUED SCALLOP - CONTINUED SEA	TONGS AND GRABS		RAKES		BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
		OYSTER	OTHER	OYSTER	OTHER		
	NUMBER						
FISHERMEN:							
ON VESSELS	16	-	-	-	-	-	1,682
ON BOATS AND SHORE:							
REGULAR	-	123	12	34	42	20	1,096
CASUAL	-	123	33	54	114	58	1,336
TOTAL	16	246	45	88	156	78	4,114
VESSELS, MOTOR	2	-	-	-	-	-	475
GROSS TONNAGE	242	-	-	-	-	-	24,674
BOATS:							
MOTOR	-	246	45	83	142	78	2,311
OTHER	-	-	-	5	5	-	86
GEAR:							
NUMBER	4	246	45	88	156	-	-
YARDS AT MOUTH	10	-	-	-	-	-	-

NORTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES				PURSE SEINES	
	COMMON		LONG		MENHADEN	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	551,800	15,166	30,000	750	-	-
BLUEFISH	146,500	11,654	245,400	20,482	-	-
BUTTERFISH	-	-	300	33	-	-
CABIO	-	-	6,300	301	-	-
CARP	30,100	1,203	-	-	-	-
CATFISH AND BULLHEADS	5,500	725	-	-	-	-
CROAKER	-	-	133,000	6,525	-	-
DRUM:						
BLACK	1,300	63	3,100	139	-	-
RED	700	67	2,400	165	-	-
FLOUNDERS	300	79	4,600	1,539	-	-
HARVESTFISH	-	-	9,200	1,160	-	-
HERRING, THREAD	-	-	-	-	5,161,000	83,970
KING WHITING OR "KINGFISH"	153,800	24,775	19,200	2,520	-	-
MACKEREL, SPANISH	300	39	33,200	4,387	-	-
MENHADEN	-	-	-	-	108,235,200	1,570,489
MULLET, BLACK (LISA)	678,700	24,483	400	63	-	-
PIGFISH	6,300	494	145,900	11,092	-	-
POMPANO	600	200	2,000	632	-	-
SEA TROUT OR WEAKFISH:						
GRAY	69,800	8,999	187,700	21,348	-	-
SPOTTED	83,600	23,562	107,300	27,618	-	-
SHEEPSHEAD, SALT-WATER	-	-	800	39	-	-
SPADEFISH	-	-	1,600	56	-	-
SPOT	87,700	10,392	1,098,200	99,631	-	-
STRIPED BASS	588,600	135,031	-	-	-	-
STURGEON, COMMON	1,800	263	-	-	-	-
WHITE PERCH	500	70	-	-	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	299,500	1,498	-	-
TOTAL	2,407,900	257,265	2,330,100	199,978	113,396,200	1,654,459

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	PURSE SEINES - CONTINUED		BAG NETS		OTTER TRAWLS	
	OTHER				CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS . . .	4,600	650	-	-	-	-
FLOUNDERS	-	-	-	-	14,100	2,993
KING WHITING OR "KINGFISH".	-	-	-	-	200	28
SPOT.	-	-	-	-	600	36
STRIPED BASS.	246,200	46,885	-	-	-	-
WHITE PERCH	3,900	566	-	-	-	-
YELLOW PERCH.	1,500	150	-	-	-	-
CRABS, BLUE:						
HARD.	-	-	-	-	5,025,300	258,241
SOFT AND PEELER	-	-	-	-	31,200	11,865
SHRIMP.	-	-	136,300	72,191	-	-
TOTAL	256,200	48,251	136,300	72,191	5,071,400	273,163

SPECIES	OTTER TRAWLS - CONTINUED					
	FISH		SCALLOP		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH.	22,600	1,281	-	-	3,900	252
BUTTERFISH.	130,700	10,985	-	-	1,400	132
CROAKER	595,700	27,117	-	-	34,500	1,548
DRUM:						
BLACK	4,400	217	-	-	300	16
RED	700	67	-	-	-	-
FLOUNDERS	2,579,000	626,770	-	-	84,000	18,356
KING WHITING OR "KINGFISH".	198,300	21,376	-	-	56,000	6,162
MACKEREL, SPANISH	-	-	-	-	900	89
PIGFISH	6,300	400	-	-	10,500	742
SAND PERCH.	1,600	47	-	-	-	-
SCUP OR PORGY	198,900	24,605	-	-	-	-
SEA BASS.	424,400	77,500	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY.	2,030,000	99,278	-	-	31,900	2,263
SPOTTED	1,500	357	-	-	100	25
SHARKS, UNCLASSIFIED. . . .	2,800	113	-	-	-	-
SHEEPSHEAD, SALT-WATER. . .	300	15	-	-	-	-
SNAPPER, RED.	500	80	-	-	-	-
SPOT.	2,900	246	-	-	102,700	6,680
STRIPED BASS.	665,500	130,302	-	-	-	-
STURGEON, COMMON.	61,900	9,062	-	-	-	-
SWELLFISH	71,100	2,763	-	-	3,000	110
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD .	1,144,800	5,724	-	-	303,400	1,517
CRABS, BLUE:						
HARD.	-	-	-	-	443,000	27,722
SOFT AND PEELER	-	-	-	-	13,000	5,449
LOBSTERS, AMERICAN.	4,800	4,541	-	-	-	-
SHRIMP.	-	-	-	-	4,918,000	2,420,576
SCALLOPS, CALICO.	-	-	1,431,700	370,610	-	-
SQUID	17,800	1,026	-	-	3,400	171
TOTAL	8,166,500	1,043,872	1,431,700	370,610	6,010,000	2,491,810

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	10,873,100	176,218	500	9	-	-
BLUEFISH.	3,800	407	-	-	-	-
CABIO	1,000	40	-	-	-	-
CARP.	27,100	647	900	29	-	-
CATFISH AND BULLHEADS . . .	400,200	54,946	29,000	4,278	-	-
CROAKER	16,400	886	-	-	-	-
DRUM:						
BLACK	6,900	317	-	-	-	-
RED	600	41	-	-	-	-
EEL, COMMON	600	23	-	-	-	-
FLOUNDERS	367,300	95,651	-	-	-	-
HARVESTFISH	15,500	2,219	-	-	-	-
HICKORY SHAD.	30,800	1,319	-	-	-	-
KING WHITING OR "KINGFISH".	8,300	1,075	-	-	-	-
MACKEREL, SPANISH	12,000	1,537	-	-	-	-
MULLET, BLACK (LISA). . . .	22,400	1,351	-	-	-	-
PIGFISH	600	46	-	-	-	-

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POUND NETS, FISH		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SEA TROUT OR WEAKFISH:						
GRAY	54,300	6,549	-	-	-	-
SPOTTED	26,200	7,362	-	-	-	-
SHAD	502,400	100,931	100	25	-	-
SHEEPSHEAD, SALT-WATER	300	22	-	-	-	-
SPADEFISH	400	19	-	-	-	-
SPOT	12,100	1,129	-	-	-	-
STRIPED BASS	198,600	38,972	600	126	-	-
STURGEON, COMMON	500	73	-	-	-	-
SWELLFISH	2,800	89	-	-	-	-
WHITE PERCH	126,400	17,431	600	82	-	-
YELLOW PERCH	26,400	3,517	-	-	-	-
CRABS, BLUE:						
HARD	-	-	-	-	13,148,800	796,190
SOFT AND PEELER	-	-	-	-	9,600	3,670
TOTAL	12,737,000	512,817	31,700	4,549	13,158,400	799,860

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS	
	EEL		FISH		ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	13,200	305
BLUEFISH	-	-	-	-	71,800	7,449
BUTTERFISH	-	-	-	-	200	20
CARP	-	-	-	-	31,100	798
CATFISH AND BULLHEADS	-	-	785,600	114,842	452,400	64,892
CROAKER	-	-	-	-	27,100	1,793
DRUM:						
BLACK	-	-	-	-	7,000	349
RED	-	-	-	-	3,100	308
EEL, COMMON	10,700	1,288	4,200	205	-	-
FLOUNDERS	-	-	-	-	68,700	17,864
GRUNTS	-	-	3,400	292	-	-
HARVESTFISH	-	-	-	-	2,400	115
HICKORY SHAD	-	-	-	-	29,400	1,262
KING WHITING OR "KINGFISH"	-	-	-	-	127,200	18,281
MACKEREL:						
KING	-	-	-	-	1,000	227
SPANISH	-	-	-	-	15,200	2,213
MULLET, BLACK (LISA)	-	-	-	-	201,400	15,930
PIGFISH	-	-	-	-	11,400	914
POMPANO	-	-	-	-	1,400	430
SCUP OR PORGY	-	-	13,200	2,385	-	-
SEA BASS	-	-	753,600	151,592	-	-
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	66,900	6,501
SPOTTED	-	-	-	-	136,100	37,393
SHAD	-	-	-	-	403,800	80,780
SHEEPSHEAD, SALT-WATER	-	-	-	-	100	5
SPOT	-	-	-	-	224,500	24,121
STRIPED BASS	-	-	-	-	614,900	127,137
STURGEON, COMMON	-	-	-	-	55,700	9,620
SWELLFISH	-	-	2,700	116	37,800	1,507
WHITE PERCH	-	-	-	-	79,800	11,882
YELLOW PERCH	-	-	-	-	15,300	2,246
OCTOPUS	-	-	100	19	-	-
TOTAL	10,700	1,288	1,562,800	269,451	2,698,900	434,342

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	18,600	623	-	-
CARP	200	4	100	2	-	-
CATFISH AND BULLHEADS	5,600	754	6,100	886	-	-
CROAKER	-	-	-	-	100	6
DRUM, BLACK	-	-	-	-	100	5
HICKORY SHAD	1,200	63	-	-	-	-
MULLET, BLACK (LISA)	4,300	433	-	-	215,800	16,970
PIGFISH	-	-	-	-	100	8

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS - CONTINUED					
	DRIFT				RUNAROUND	
	SHAD		OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	500	34
SPOTTED	-	-	-	-	49,800	11,647
SHAD	46,900	11,060	-	-	-	-
SPOT	-	-	-	-	200	12
STRIPED BASS	1,100	243	1,700	417	300	72
TOTAL	59,300	12,557	26,500	1,928	266,900	28,754

SPECIES	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	1,500	300	-	-
CATFISH AND BULLHEADS	45,000	6,461	-	-	262,400	38,076
MACKEREL:						
KING	-	-	11,300	2,738	-	-
SPANISH	-	-	1,700	255	-	-
SEA BASS	300	35	-	-	-	-
TURTLES, SNAPPER	22,200	3,329	-	-	200	25
TOTAL	67,500	9,825	14,500	3,293	262,600	38,101

SPECIES	LINES - CONTINUED		DIP NETS			
	TROT WITH BAITS		COMMON		DROP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	34,200	685
CRABS, BLUE:						
HARD	2,263,100	155,414	-	-	-	-
SOFT AND PEELER	-	-	6,000	2,262	-	-
SCALLOPS, BAY	-	-	1,200	837	-	-
TOTAL	2,263,100	155,414	7,200	3,099	34,200	685

SPECIES	SPEARS		DREDGES			
			CLAM		OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS	44,800	16,472	-	-	-	-
CLAMS:						
HARD, PUBLIC	-	-	141,400	76,210	-	-
RANGIA	-	-	53,600	16,360	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	-	-	71,700	51,504
FALL	-	-	-	-	72,500	51,904
PRIVATE, FALL	-	-	-	-	11,200	8,119
TOTAL	44,800	16,472	195,000	92,570	155,400	111,527

SPECIES	DREDGES - CONTINUED				TONGS AND GRABS	
	SCALLOP				OYSTER	
	BAY		SEA			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	-	-	-	-	5,000	2,675
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	-	-	41,800	29,093
FALL	-	-	-	-	43,500	29,995
PRIVATE:						
SPRING	-	-	-	-	14,600	9,909
FALL	-	-	-	-	50,500	37,618
SCALLOPS:						
BAY	129,000	90,250	-	-	-	-
CALICO	-	-	142,100	127,872	-	-
TOTAL	129,000	90,250	142,100	127,872	155,400	109,290

(CONTINUED ON NEXT PAGE)

NORTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	TONGS AND GRABS - CONTINUED		RAKES	
	OTHER		OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	42,400	23,802	2,800	1,527
OYSTERS, MARKET:				
PUBLIC:				
SPRING	-	-	18,100	11,997
FALL	-	-	36,500	23,761
PRIVATE:				
SPRING	-	-	900	604
FALL	-	-	7,100	5,465
TOTAL	42,400	23,802	65,400	43,354

SPECIES	RAKES - CONTINUED		BY HAND, OYSTER	
	OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	90,300	52,994	-	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING	-	-	9,400	6,022
FALL	-	-	4,200	2,804
PRIVATE, SPRING	500	324	-	-
TOTAL	90,800	53,318	13,600	8,826

SOUTH CAROLINA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS			GILL NETS	
		FISH	SHRIMP	CRAB	FISH	LOBSTER, SPINY	ANCHOR, SET, OR STAKE	DRIFT, SHAD
	NUMBER							
FISHERMEN:								
ON VESSELS	-	10	590	2	55	4	-	-
ON BOATS AND SHORE:								
REGULAR	-	-	7	61	50	-	-	-
CASUAL	139	-	45	80	56	-	18	38
TOTAL	139	10	642	143	161	4	18	38
VESSELS, MOTOR	-	4	288	1	26	1	-	-
GROSS TONNAGE	-	262	10,697	9	975	76	-	-
BOATS:								
MOTOR	3	-	26	141	55	-	9	22
OTHER	6	-	-	-	-	-	-	-
GEAR:								
NUMBER	9	7	593	8,170	1,637	500	9	22
LENGTH, YARDS	2,600	-	-	-	-	-	13,698	2,900
SQUARE YARDS	-	-	-	-	-	-	-	-
YARDS AT MOUTH	-	178	10,657	-	-	-	-	-

ITEM	LINES			DIP NETS, DROP	TONGS AND GRABS, OYSTER	RAKES	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	HAND	LONG OR SET WITH HOOKS	TROT WITH BAITS					
	NUMBER							
FISHERMEN:								
ON VESSELS	3	-	-	-	-	-	-	609
ON BOATS AND SHORE:								
REGULAR	-	30	2	20	57	-	70	227
CASUAL	10	31	2	21	55	37	61	431
TOTAL	13	61	4	41	112	37	131	1,267
VESSELS, MOTOR	1	-	-	-	-	-	-	295
GROSS TONNAGE	50	-	-	-	-	-	-	11,000
BOATS:								
MOTOR	7	41	4	23	112	37	131	440
OTHER	-	-	-	-	-	-	-	6
GEAR:								
NUMBER	19	61	8	41	112	37	-	-
HOOKS OR BAITS	38	5,950	3,200	-	-	-	-	-

SOUTH CAROLINA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	8,400	1,251	-	-	100	9
CROAKER	1,900	167	-	-	800	52
DRUM:						
BLACK	1,000	100	-	-	-	-
RED	-	-	-	-	400	68
FLOUNDERS	1,000	160	-	-	15,100	2,423
KING WHITING OR "KINGFISH"	6,000	605	-	-	89,300	9,968
MACKEREL:						
KING	-	-	-	-	300	39
SPANISH	-	-	-	-	1,800	243
MENHADEN	10,000	100	-	-	-	-
MULLET, BLACK (LISA)	859,000	17,180	-	-	-	-
POMPANO	-	-	-	-	300	46
SCUP OR PORGY	-	-	270,000	27,200	-	-
SEA TROUT OR WEAKFISH:						
GRAY	3,700	308	-	-	300	32
SPOTTED	4,700	1,175	-	-	4,400	984
SHARKS, UNCLASSIFIED	-	-	-	-	4,200	417
SHEEPSHEAD, SALT-WATER	-	-	-	-	1,800	176
SPOT	340,000	34,226	-	-	27,500	2,620
STURGEON, COMMON	-	-	-	-	800	156
CRABS, BLUE, HARD	-	-	-	-	3,200	192
SHRIMP	-	-	-	-	4,951,100	2,878,735
TOTAL	1,235,700	55,272	270,000	27,200	5,101,400	2,896,160

SPECIES	POTS AND TRAPS					
	CRAB		FISH		LOBSTER, SPINY	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	-	-	233,800	35,071	-	-
EEL, COMMON	-	-	16,100	1,842	-	-
GROUPERS	-	-	12,800	1,452	-	-
GRUNTS	-	-	3,200	260	-	-
SCUP OR PORGY	-	-	20,000	2,872	-	-
SEA BASS	-	-	773,100	164,373	-	-
SNAPPER, RED	-	-	2,300	1,613	-	-
CRABS, BLUE, HARD	6,815,800	446,258	-	-	-	-
LOBSTERS, SPINY	-	-	-	-	33,000	21,450
TOTAL	6,815,800	446,258	1,061,300	207,483	33,000	21,450

SPECIES	GILL NETS				LINES	
	ANCHOR, SET, OR STAKE		DRIFT, SHAD		HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CARP	-	-	600	48	-	-
GROUPERS	-	-	-	-	1,200	124
HICKORY SHAD	800	150	1,900	278	-	-
SHAD	65,000	17,079	82,900	21,915	-	-
SNAPPER, RED	-	-	-	-	9,500	6,650
STURGEON, COMMON	3,500	702	2,000	400	-	-
SUCKERS	-	-	100	8	-	-
TOTAL	69,300	17,931	87,500	22,649	10,700	6,774

SPECIES	LINES - CONTINUED				DIP NETS, DROP	
	LONG OR SET WITH HOOKS		TROT WITH BAITS			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	100,000	1,500
CATFISH AND BULLHEADS	205,200	30,819	-	-	-	-
EEL, COMMON	6,000	720	-	-	-	-
CRABS, BLUE, HARD	-	-	130,500	8,950	-	-
TOTAL	211,200	31,539	130,500	8,950	100,000	1,500

SPECIES	TONGS AND GRABS, OYSTER		RAKES		BY HAND, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	-	-	87,400	39,502	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING	283,000	176,382	-	-	237,100	120,622
FALL	214,200	128,224	-	-	117,800	59,629
TOTAL	497,200	304,606	87,400	39,502	354,900	180,251

SOUTH ATLANTIC FISHERIES

GEORGIA

OPERATING UNITS BY GEAR, 1970

ITEM	OTTER TRAWLS			POTS AND TRAPS	
	CRAB	FISH	SHRIMP	CRAB	FISH
	NUMBER				
FISHERMEN:					
ON VESSELS	86	2	615	-	4
ON BOATS AND SHORE:					
REGULAR	24	-	155	108	-
CASUAL	28	-	233	66	42
TOTAL	138	2	1,003	174	46
VESSELS, MOTOR	43	1	307	-	2
GROSS TONNAGE	1,558	37	12,744	-	73
BOATS, MOTOR	33	-	267	120	34
GEAR:					
NUMBER	117	2	878	7,790	337
YARDS AT MOUTH	1,864	28	13,154	-	-

ITEM	GILL NETS		LINES		DREDGES, SCALLOP, SEA
	ANCHOR, SET, OR STAKE	DRIFT, SHAD	HAND	LONG OR SET WITH HOOKS	
	NUMBER				
FISHERMEN:					
ON VESSELS	-	-	8	-	6
ON BOATS AND SHORE:					
REGULAR	-	71	-	3	-
CASUAL	2	195	16	43	-
TOTAL	2	266	24	46	6
VESSELS, MOTOR	-	-	2	-	1
GROSS TONNAGE	-	-	83	-	110
BOATS:					
MOTOR	1	221	14	44	-
OTHER	-	53	-	-	-
GEAR:					
NUMBER	1	341	24	164	2
SQUARE YARDS	610	161,228	-	-	-
YARDS AT MOUTH	-	-	-	-	5
HOOKS OR BAITS	-	-	48	16,100	-

ITEM	TONGS AND GRABS, OYSTER	RAKES	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	-	-	-	633
ON BOATS AND SHORE:				
REGULAR	20	-	37	215
CASUAL	-	7	30	459
TOTAL	20	7	67	1,307
VESSELS, MOTOR	-	-	-	312
GROSS TONNAGE	-	-	-	13,060
BOATS:				
MOTOR	20	7	55	542
OTHER	10	-	25	85
GEAR, NUMBER	20	7	-	-

GEORGIA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	OTTER TRAWLS					
	CRAB		FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CROAKER	-	-	-	-	9,400	954
DRUM:						
BLACK	-	-	-	-	2,300	23
RED	-	-	-	-	500	94
FLOUNDERS	-	-	-	-	37,300	6,062
KING WHITING OR "KINGFISH"	-	-	-	-	145,800	15,324
MACKEREL:						
KING	-	-	-	-	1,100	164
SPANISH	-	-	-	-	300	59
POMPANO	-	-	-	-	500	100
SCUP OR PORGY	-	-	2,300	270	2,200	412
SEA BASS	-	-	-	-	200	47
SEA TROUT OR WEAKFISH:						
GRAY	-	-	-	-	200	19
SPOTTED	-	-	-	-	10,000	2,164
SHEEPSHEAD, SALT-WATER	-	-	-	-	800	66
SPOT	-	-	-	-	9,300	928
STURGEON, COMMON	-	-	-	-	800	170
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	107,700	6,050
CRABS, BLUE, HARD	708,600	44,913	-	-	1,997,100	103,945
SHRIMP	-	-	-	-	5,996,100	3,371,048
TOTAL	708,600	44,913	2,300	270	8,321,600	3,507,629

SPECIES	POTS AND TRAPS				GILL NETS	
	CRAB		FISH		ANCHOR, SET OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	-	-	43,900	10,208	-	-
EEL, COMMON	-	-	5,200	533	-	-
GROUPERS	-	-	19,300	2,590	-	-
SEA BASS	-	-	8,600	1,868	-	-
SNAPPER, RED	-	-	1,800	1,344	-	-
STURGEON, COMMON	-	-	-	-	300	60
SUCKERS	-	-	1,100	78	-	-
CRABS, BLUE, HARD	4,386,500	279,373	-	-	-	-
TOTAL	4,386,500	279,373	79,900	16,621	300	60

SPECIES	GILL NETS - CONTINUED		LINES			
	DRIFT, SHAD		HAND		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CARP	1,100	119	-	-	-	-
CATFISH AND BULLHEADS	4,200	1,003	-	-	52,300	12,418
DRUM:						
BLACK	-	-	4,300	441	-	-
RED	-	-	1,700	266	-	-
GROUPERS	-	-	30,100	5,273	-	-
HICKORY SHAD	4,500	882	-	-	-	-
MACKEREL, SPANISH	-	-	100	25	-	-
SCUP OR PORGY	-	-	2,800	702	-	-
SEA BASS	-	-	2,300	570	-	-
SHAD	531,500	140,168	-	-	-	-
SNAPPER, RED	-	-	14,200	10,127	-	-
STRIPED BASS	1,800	297	-	-	-	-
STURGEON, COMMON	2,400	499	-	-	100	26
SUCKERS	-	-	-	-	3,400	323
TOTAL	545,500	142,968	55,500	17,404	55,800	12,767

SPECIES	DREDGES, SCALLOP, SEA		TONGS AND GRABS, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET, PRIVATE:				
SPRING	-	-	105,800	59,185
FALL	-	-	13,600	7,458
SCALLOP, CALICO	63,300	34,375	-	-
TOTAL	63,300	34,375	119,400	66,643

SPECIES	RAKES		BY HAND, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	16,700	6,660	-	-
OYSTERS, MARKET, PRIVATE:				
SPRING	-	-	30,300	17,268
FALL	-	-	29,000	16,436
TOTAL	16,700	6,660	59,300	33,704

FLORIDA, EAST COAST

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES		OTTER TRAWLS		POUND NETS, FISH	FYKE AND HOOP NETS, FISH
		MENHADEN	OTHER	SCALLOP	SHRIMP		
	NUMBER						
FISHERMEN:							
ON VESSELS	4	30	2	8	519	-	-
ON BOATS AND SHORE:							
REGULAR	60	-	4	-	8	1	8
CASUAL	-	-	2	-	-	-	-
TOTAL	64	30	8	8	527	1	8
VESSELS, MOTOR	1	2	1	3	238	-	-
GROSS TONNAGE	32	348	10	140	13,380	-	-
BOATS:							
MOTOR	17	4	3	-	4	1	8
OTHER	6	-	-	-	-	-	-
GEAR:							
NUMBER	16	2	4	6	477	3	240
LENGTH, YARDS	9,200	866	800	-	-	-	-
YARDS AT MOUTH	-	-	-	64	7,698	-	-

ITEM	POTS AND TRAPS					GILL NETS	
	CRAB		EEL	FISH	LOBSTER, SPINY	ANCHOR, SET, OR STAKE	DRIFT, SHAD
	BLUE	OTHER					
	NUMBER						
FISHERMEN:							
ON VESSELS	-	2	-	-	311	-	-
ON BOATS AND SHORE:							
REGULAR	139	12	4	163	110	16	8
CASUAL	30	1	-	14	3	-	-
TOTAL	169	15	4	177	424	16	8
VESSELS, MOTOR	-	1	-	-	103	-	-
GROSS TONNAGE	-	14	-	-	2,396	-	-
BOATS, MOTOR	169	7	4	177	52	8	8
GEAR:							
NUMBER	27,900	3,200	120	13,720	69,050	28	8
SQUARE YARDS	-	-	-	-	-	15,200	8,000

ITEM	GILL NETS-CONTINUED	TRAMMEL NETS	LINES			CAST NETS	DREDGES	
	RUNAROUND		HAND	TROLL	LONG OR SET WITH HOOKS		OYSTER, COMMON	SCALLOP, SEA
	NUMBER							
FISHERMEN:								
ON VESSELS	16	-	116	21	-	-	-	30
ON BOATS AND SHORE:								
REGULAR	273	10	164	132	462	-	4	-
CASUAL	60	-	265	93	32	17	-	-
TOTAL	349	10	545	246	494	17	4	30
VESSELS, MOTOR	5	-	39	10	-	-	-	2
GROSS TONNAGE	70	-	940	104	-	-	-	242
BOATS, MOTOR	245	10	351	192	494	8	2	-
GEAR:								
NUMBER	250	10	588	464	840	17	4	4
SQUARE YARDS	373,350	12,000	-	-	-	-	-	-
YARDS AT MOUTH	-	-	-	-	-	-	3	14
HOOKS OR BAITS	-	-	911	464	645,400	-	-	-

ITEM	TONGS		RAKES	HOOKS, SPONGE	DIVING OUTFITS	BY HAND		TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER	OTHER				OYSTER	OTHER	
	NUMBER							
FISHERMEN:								
ON VESSELS	-	-	-	-	2	-	-	1,012
ON BOATS AND SHORE:								
REGULAR	17	-	-	21	-	17	10	1,243
CASUAL	21	2	10	16	-	3	16	477
TOTAL	38	2	10	37	2	20	26	2,732
VESSELS, MOTOR	-	-	-	-	1	-	-	386
GROSS TONNAGE	-	-	-	-	7	-	-	17,212
BOATS:								
MOTOR	38	2	10	7	-	20	26	1,437
OTHER	-	-	-	28	-	-	-	34
GEAR, NUMBER	38	2	10	37	2	-	-	-

NOTE:--INCLUDES OPERATING UNITS FOR THE INLAND LAKES OF FLORIDA.

SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			MENHADEN		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANGELFISH	2,100	87	-	-	-	-
BALLYHOO	-	-	-	-		
BLUEFISH	367,400	40,528	-	-	158,600	36,765
BLUE RUNNER	13,500	558	-	-	-	-
CATFISH AND BULLHEADS	100,000	20,600	-	-	-	-
CREVALLE	22,000	722	-	-	-	-
CROAKER	22,900	5,881	-	-	-	-
DRUM:						
BLACK	12,500	1,314	-	-	-	-
RED	9,600	2,304	-	-	-	-
FLOUNDERS	3,600	795	-	-	-	-
GOATFISH	10,000	1,803	-	-	-	-
KING WHITING OR "KINGFISH"	287,000	38,005	-	-	-	-
MACKEREL, SPANISH	6,000	862	-	-	-	-
MENHADEN	-	-	27,065,300	341,419	100	2
MOJARRA	35,000	2,048	-	-	-	-
MULLET:						
BLACK (LISA)	37,000	2,684	-	-	-	-
SILVER	22,000	2,454	-	-	-	-
POMPANO	11,300	13,432	-	-	-	-
SEA CATFISH	2,600	115	-	-	-	-
SEA TROUT OR WEAKFISH:						
GRAY	139,700	21,635	-	-	-	-
SPOTTED	13,000	4,762	-	-	-	-
SHAD	126,800	23,868	-	-	-	-
SHEEPSHEAD, SALT-WATER	2,500	311	-	-	-	-
SPOT	64,900	11,456	-	-	-	-
TRIPLETAIL	2,000	195	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	16,600	1,165	-	-	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	232,800	4,862	-	-	-	-
TOTAL	1,562,800	202,446	27,065,300	341,419	158,700	36,767

SPECIES	OTTER TRAWLS				POUND NETS, FISH	
	SCALLOP		SHRIMP			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	200	18	-	-
CATFISH AND BULLHEADS	-	-	-	-	10,000	2,060
CROAKER	-	-	1,000	207	-	-
FLOUNDERS	-	-	165,600	36,690	-	-
KING WHITING OR "KINGFISH"	-	-	879,200	96,661	-	-
MACKEREL, SPANISH	-	-	7,000	1,157	-	-
SEA TROUT OR WEAKFISH, GRAY	-	-	59,800	9,211	-	-
SPOT	-	-	2,800	502	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	95,000	2,718	-	-
CRABS, BLUE, HARD	-	-	145,000	12,627	-	-
SHRIMP	-	-	4,608,500	2,644,781	-	-
SCALLOP, CALICO	1,300	1,256	-	-	-	-
SQUID	-	-	5,500	1,127	-	-
TURTLES:						
GREEN	-	-	4,100	324	-	-
LOGGERHEAD	-	-	3,300	488	-	-
TOTAL	1,300	1,256	5,977,000	2,806,511	10,000	2,060

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS			
			CRAB			
			BLUE		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	407,500	83,945	-	-	-	-
CRABS:						
BLUE:						
HARD	-	-	7,633,300	638,739	-	-
SOFT AND PEELER	-	-	200	75	-	-
STONE	-	-	1,900	561	109,800	69,645
TOTAL	407,500	83,945	7,635,400	639,375	109,800	69,645

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POTS AND TRAPS - CONTINUED					
	EEL		FISH		LOBSTER, SPINY	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS . . .	-	-	2,601,200	498,857	-	-
EEL, COMMON	29,900	2,987	-	-	-	-
CRABS, BLUE, HARD	-	-	-	-	200	24
LOBSTER, SPINY.	-	-	-	-	3,010,900	1,826,033
TOTAL	29,900	2,987	2,601,200	498,857	3,011,100	1,826,057

SPECIES	GILL NETS					
	ANCHOR, SET, OR STAKE		DRIFT, SHAD		RUNAROUND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANGELFISH	-	-	-	-	9,100	343
BLUEFISH.	-	-	-	-	1,543,300	168,067
BLUE RUNNER	-	-	-	-	17,100	684
CREVALLE.	-	-	-	-	19,800	684
CROAKER	-	-	-	-	26,800	5,418
DRUM:						
BLACK	-	-	-	-	68,200	6,231
RED	-	-	-	-	111,800	22,051
FLOUNDERS	-	-	-	-	8,800	2,382
GOATFISH.	-	-	-	-	55,000	10,078
KING WHITING OR "KINGFISH".	-	-	-	-	100,300	13,954
MACKEREL:						
KING.	-	-	-	-	2,354,000	536,936
SPANISH	-	-	-	-	3,457,300	435,066
MENHADEN.	-	-	-	-	942,500	29,026
MOJARRA	-	-	-	-	65,900	4,839
MULLET:						
BLACK (LISA).	-	-	-	-	1,979,800	153,116
SILVER.	-	-	-	-	300,000	33,529
PIGFISH	-	-	-	-	13,700	884
POMPANO	-	-	-	-	125,400	147,234
SEA CATFISH	-	-	-	-	7,300	184
SEA TROUT OR WEAKFISH:						
GRAY.	-	-	-	-	60,100	9,955
SPOTTED	-	-	-	-	588,300	189,759
SHAD.	65,000	13,819	26,500	4,842	-	-
SHEEPSHEAD, SALT-WATER. . .	-	-	-	-	183,400	18,743
SPOT.	-	-	-	-	1,280,300	209,666
TRIPLETAIL.	-	-	-	-	5,100	506
UNCLASSIFIED:						
FOR FOOD.	-	-	-	-	242,100	18,878
FOR BAIT, REDUCTION, AND ANIMAL FOOD.	-	-	-	-	21,800	899
TURTLES:						
GREEN	-	-	-	-	4,300	977
LOGGERHEAD.	-	-	-	-	500	75
TOTAL	65,000	13,819	26,500	4,842	13,592,000	2,020,164

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
AMBERJACK	-	-	38,700	2,457	-	-
BLUEFISH.	2,000	220	58,100	6,439	74,900	8,329
BLUE RUNNER	-	-	58,000	2,795	-	-
BONITO.	-	-	-	-	7,200	381
CABIO	-	-	9,700	1,053	4,200	722
CATFISH AND BULLHEADS . . .	-	-	1,800	478	-	-
CREVALLE.	500	16	17,200	1,055	-	-
CROAKER	2,500	598	13,700	3,421	-	-
DOLPHIN	-	-	3,900	881	17,300	3,914
DRUM:						
BLACK	-	-	32,200	3,209	-	-
RED	1,000	183	24,400	4,441	-	-
FLOUNDERS	-	-	2,800	771	-	-
GOATFISH.	-	-	10,000	1,876	-	-
GROUPERS.	-	-	635,400	135,081	-	-
GRUNTS.	-	-	45,400	4,718	-	-
HOGFISH	-	-	3,000	736	-	-
JEWFISH	-	-	21,200	3,166	-	-
KING WHITING OR "KINGFISH".	-	-	24,200	3,210	-	-

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
MACKEREL:						
KING	-	-	13,400	3,270	1,970,500	474,627
SPANISH	-	-	60,900	7,254	43,200	14,289
MOJARRA	-	-	17,000	1,674	-	-
MULLET, BLACK (LISA)	15,000	1,297	-	-	-	-
PERMIT	-	-	3,000	685	-	-
PIGFISH	-	-	500	35	-	-
POMPANO	79,400	100,158	27,300	32,646	-	-
SCUP OR PORGY	-	-	65,500	10,871	-	-
SEA BASS	-	-	62,100	16,282	-	-
SEA CATFISH	-	-	1,500	68	-	-
SEA TROUT OR WEAKFISH:						
GRAY	6,100	919	19,900	3,288	6,700	1,031
SPOTTED	15,500	5,067	74,200	24,138	20,200	6,399
SHARKS, UNCLASSIFIED	-	-	3,200	130	-	-
SHEEPSHEAD, SALT-WATER	1,000	101	32,400	3,352	-	-
SNAPPERS:						
LANE	-	-	5,500	1,850	-	-
MANGROVE	-	-	89,900	30,879	-	-
MUTTON	-	-	161,800	81,873	-	-
RED	-	-	574,900	383,265	-	-
VERMILION	-	-	19,600	9,779	-	-
YELLOWTAIL	-	-	209,300	84,593	-	-
SPOT	7,500	1,220	42,300	6,249	-	-
TILEFISH	-	-	6,300	787	-	-
TRIGGERFISH	-	-	2,300	265	-	-
WARSAW	-	-	34,900	7,207	-	-
UNCLASSIFIED, FOR FOOD	2,000	137	51,400	6,041	-	-
TOTAL	132,500	109,916	2,578,800	892,268	2,144,200	509,692

SPECIES	LINES - CONTINUED		CAST NETS		DREDGES	
	LONG OR SET WITH HOOKS				OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	8,529,400	1,588,510	-	-	-	-
MULLET, BLACK (LISA)	-	-	1,700	121	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING	-	-	-	-	15,000	9,000
FALL	-	-	-	-	4,900	2,940
TURTLES, SOFT-SHELL	126,500	10,750	-	-	-	-
TOTAL	8,655,900	1,599,260	1,700	121	19,900	11,940

SPECIES	DREDGES - CONTINUED		TONGS AND GRABS			
	SCALLOP, SEA		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	-	-	-	-	1,000	550
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	5,000	3,000	-	-
FALL	-	-	2,000	1,200	-	-
PRIVATE:						
SPRING	-	-	84,700	51,091	-	-
FALL	-	-	45,600	25,740	-	-
SCALLOP, CALICO	194,500	194,508	-	-	-	-
TOTAL	194,500	194,508	137,300	81,031	1,000	550

SPECIES	RAKES		HOOKS, SPONGE		DIVING OUTFITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
LOBSTER, SPINY	-	-	-	-	6,900	4,166
CLAMS, HARD, PUBLIC	6,500	3,327	-	-	-	-
SPONGES:						
GRASS	-	-	4,500	6,666	-	-
SHEEPSWOOL	-	-	4,500	25,335	-	-
YELLOW	-	-	2,500	5,179	-	-
TOTAL	6,500	3,327	11,500	37,180	6,900	4,166

SEE NOTE AT END OF TABLE.

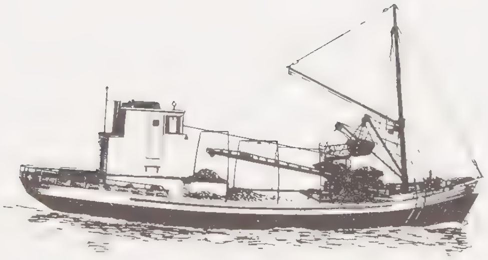
(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC FISHERIES

FLORIDA, EAST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	BY HAND			
	OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	-	-	43,800	24,078
OYSTERS, MARKET:				
PUBLIC:				
SPRING.	7,500	3,900	-	-
FALL.	5,000	2,500	-	-
PRIVATE:				
SPRING.	22,500	10,892	-	-
FALL.	20,600	8,850	-	-
TOTAL	55,600	26,142	43,800	24,078

NOTE:--INCLUDES LANDINGS FOR THE INLAND LAKES OF FLORIDA.



OYSTER DREDGE

SOUTH ATLANTIC FISHERIES

SUPPLEMENTARY TABLES
FLORIDA - OPERATING UNITS BY DISTRICTS, 1970

ITEM	EAST COAST	WEST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER		
FISHERMEN:			
ON VESSELS	1,012	3,465	4,266
ON BOATS AND SHORE:			
REGULAR	1,243	2,204	3,447
CASUAL	477	1,264	1,741
TOTAL	2,732	6,933	9,454
VESSELS, MOTOR	386	1,209	1,499
GROSS TONNAGE	17,212	58,852	70,136
BOATS:			
MOTOR	1,437	2,599	4,036
OTHER	34	18	52
GEAR:			
HAUL SEINES, COMMON	16	76	92
LENGTH, YARDS	9,200	51,350	60,550
PURSE SEINES:			
HERRING	-	5	5
LENGTH, YARDS	-	1,400	1,400
MENHADEN	2	-	2
LENGTH, YARDS	866	-	866
OTHER	4	8	12
LENGTH, YARDS	800	2,740	3,540
LAMPARA NETS	-	1	1
LENGTH, YARDS	-	250	250
OTTER TRAWLS:			
SCALLOP	6	-	6
YARDS AT MOUTH	64	-	64
SHRIMP	477	1,626	1,941
YARDS AT MOUTH	7,698	27,628	32,667
POUND NETS, FISH	3	-	3
FYKE AND HOOP NETS, FISH	240	-	240
POTS AND TRAPS:			
CRAB:			
BLUE	27,900	30,940	58,840
OTHER	3,200	60,800	64,000
EEL	120	-	120
FISH	13,720	283	14,003
LOBSTER, SPINY	69,050	150,050	216,950
GILL NETS:			
ANCHOR, SET, OR STAKE	28	18	46
SQUARE YARDS	15,200	5,000	20,200
DRIFT:			
SHAD	8	-	8
SQUARE YARDS	8,000	-	8,000
OTHER	-	7	7
SQUARE YARDS	-	21,550	21,550
RUNAROUND	250	846	1,095
SQUARE YARDS	373,350	1,284,831	1,653,681
TRAMMEL NETS	10	294	304
SQUARE YARDS	12,000	323,073	335,073
LINES:			
HAND	588	2,224	2,804
HOOKS	911	7,710	8,608
TROLL	464	911	1,375
HOOKS	464	911	1,375
LONG OR SET WITH HOOKS	840	37	877
HOOKS	645,400	7,700	653,100
DIP NETS:			
COMMON	-	12	12
DROP	-	150	150
CAST NETS	17	13	30
SPEARS	-	60	60
DREDGES:			
CLAM	-	2	2
YARDS AT MOUTH	-	2	2
OYSTER, COMMON	4	-	4
YARDS AT MOUTH	3	-	3
SCALLOP:			
BAY	-	112	112
YARDS AT MOUTH	-	112	112
SEA	4	-	4
YARDS AT MOUTH	14	-	14
TONGS AND GRABS:			
OYSTER	38	673	711
OTHER	2	1	3
RAKES	10	-	10
HOOKS, SPONGE	37	29	66
DIVING OUTFITS:			
SPONGE	-	9	9
OTHER	2	-	2

NOTE:--A TOTAL OF 443 FISHERMEN USING 443 MOTOR BOATS FISHED 985 FISH POTS AND TRAPS AND 200 LONG OR SET LINES WITH 570,700 HOOKS IN THE INLAND LAKES OF FLORIDA. THESE OPERATING UNITS ARE INCLUDED WITH THOSE OF THE EAST COAST OF FLORIDA.

FLORIDA - LANDINGS BY DISTRICTS, 1970

SPECIES	EAST COAST		WEST COAST		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	-	-	251	10	251	10
AMBERJACK	39	2	20	2	59	[illegible]
ANGLEFISH	11	(1)	6	(1)	17	(1)
BALLYHOO	159	37	268	45	427	82
BARRACUDA	-	-	1	(1)	1	(1)
BLUEFISH	2,046	224	650	62	2,696	286
BLUE RUNNER	89	4	1.378	62	1,467	66
BONITO	7	1	34	2	41	3
CABIO	14	2	60	5	74	7
CATFISH AND BULLHEADS	11,650	2,194	21	5	11,671	2,199
CIGARFISH	-	-	259	39	259	39
CREVALLE	60	2	576	22	636	24
CROAKER	67	15	936	132	1,003	147
DOLPHIN	21	5	63	7	84	12
DRUM:						
BLACK	113	11	50	4	163	15
RED	147	29	667	111	814	140
EEL, COMMON	30	3	-	-	30	3
FLOUNDERS	181	41	290	68	471	109
GOATFISH	75	14	-	-	75	14
GROUPERS	635	135	6,902	1,298	7,537	1,433
GRUNTS	45	5	315	44	360	49
HERRING, THREAD	-	-	520	16	520	16
HOGFISH	3	1	23	5	26	6
JEWFISH	21	3	130	10	151	13
KING WHITING OF "KINGFISH"	1,291	152	292	19	1,583	171
MACKEREL:						
KING	4,338	1,015	2,372	320	6,710	1,335
SPANISH	3,574	459	8,100	939	11,674	1,398
MENHADEN	28,008	370	617	22	28,625	392
MOJARRA	118	9	156	19	274	28
MULLET:						
BLACK (LISA)	2,034	157	23,139	2,039	25,173	2,196
SILVER	322	36	501	46	823	82
PERMIT	3	1	12	1	15	2
PIGFISH	14	1	34	3	48	4
POMPANO	243	293	852	964	1,095	1,257
SCUP OR PORGY	66	11	72	10	138	21
SEA BASS	62	16	149	17	211	33
SEA CATFISH	11	(1)	100	7	111	7
SEA TROUT OR WEAKFISH:						
GRAY	292	46	-	-	292	46
SPOTTED	711	230	2,643	812	3,354	1,042
WHITE	-	-	256	24	256	24
SHAD	218	43	-	-	218	43
SHARKS, UNCLASSIFIED	3	(1)	6	(1)	9	(1)
SHEEPSHEAD, SALT-WATER	219	22	263	27	482	49
SNAPPERS:						
LANE	6	2	14	3	20	5
MANGROVE	90	31	442	112	532	143
MUTTON	162	82	234	85	396	167
RED	575	383	3,864	2,122	4,439	2,505
VERMILION	20	10	118	46	138	56
YELLOWTAIL	209	85	987	384	1,196	469
SPANISH SARDINES	-	-	421	21	421	21
SPOT	1,398	229	250	23	1,648	252
STURGEON, COMMON	-	-	18	2	18	2
SWORDFISH	-	-	56	23	56	23
TENPOUNDER	-	-	684	22	684	22
TILEFISH	6	1	5	1	11	2
TRIGGERFISH	2	(1)	24	2	26	2
TRIPLETAIL	7	1	(1)	(1)	7	1
WARSAW	35	7	187	24	222	31
UNCLASSIFIED:						
FOR FOOD	312	26	1,289	120	1,601	146
FOR BAIT, REDUCTION, AND ANIMAL FOOD	350	8	241	9	591	17
TOTAL FISH	60,112	6,454	61,818	10,217	121,930	16,671
SHELLFISH ET AL.						
CRABS:						
BLUE:						
HARD	7,779	651	14,786	1,076	22,565	1,727
SOFT AND PEELER	(1)	(1)	(1)	(1)	(1)	(1)
STONE	112	70	1,502	770	1,614	840
TOTAL CRABS	7,891	721	16,288	1,846	24,179	2,567

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

FLORIDA - LANDINGS BY DISTRICTS, 1970 - Continued

SPECIES	EAST COAST		WEST COAST		TOTAL	
SHELLFISH ET AL. - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
LOBSTERS, SPINY	3,018	1,830	6,852	4,088	9,870	5,918
SHRIMP, SALT-WATER.	4,608	2,645	26,564	13,108	31,172	15,753
CLAMS:						
HARD, PUBLIC.	51	28	10	5	61	33
SUNRAY VENUS.	-	-	760	76	760	76
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	12	7	2,146	887	2,158	894
FALL.	7	4	1,223	502	1,230	506
PRIVATE:						
SPRING.	122	71	144	60	266	131
FALL.	71	38	60	26	131	64
TOTAL OYSTERS	212	120	3,573	1,475	3,785	1,595
SCALLOPS:						
BAY	-	-	104	56	104	56
CALICO.	196	196	-	-	196	196
SQUID	6	1	36	5	42	6
TURTLES:						
GREEN	8	1	411	90	419	91
LOGGERHEAD.	4	1	22	3	26	4
SOFT-SHELL.	127	11	-	-	127	11
SPONGES:						
GRASS	4	6	1	1	5	7
SHEEPSWOOL.	4	25	28	247	32	272
YELLOW.	3	5	3	5	6	10
TOTAL SHELLFISH ET AL.	16,132	5,590	54,652	21,005	70,784	26,595
GRAND TOTAL	76,244	12,044	116,470	31,222	192,714	43,266

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--THE LANDINGS OF 9,810,400 POUNDS OF CATFISH AND BULLHEADS (VALUED AT $1,814,953) AND 126.500 POUNDS OF SOFT-SHELL TURTLES (VALUED AT $10,750) TAKEN FROM THE INLAND LAKES ARE INCLUDED WITH THE EAST COAST OF FLORIDA. FOR THE PURPOSE OF THIS REPORT THE "EAST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM NASSAU TO DADE, INCLUSIVE, WHILE THE "WEST COAST OF FLORIDA" INCLUDES THOSE FROM MONROE TO ESCAMBIA, INCLUSIVE.

SOUTH ATLANTIC SHRIMP FISHERY
SUMMARY OF SHRIMP LANDINGS, 1970

SIZE	BROWN		PINK		WHITE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
15 - 20	236,363	272,900	1,567	1,869	79,314	[illegible]
21 - 25	666,313	725,086	6,781	7,323	1,885,859	[illegible]
26 - 30	1,246,645	1,210,095	62,096	57,478	1,867,021	[illegible]
31 - 40	1,515,354	1,189,571	155,575	133,093	2,389,544	[illegible]
41 - 50	495,604	332,829	249,356	164,039	1,133,882	[illegible]
51 - 67	222,869	120,213	62,490	33,714	590,182	[illegible]
68 AND OVER	47,364	20,960	-	-	165,319	[illegible]
TOTAL	4,430,512	3,871,654	537,865	397,516	8,111,121	[illegible]

SIZE	ROYAL RED		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS
15 - 20	-	-	317,244	372,113
21 - 25	32,044	36,293	2,590,997	2,835,255
26 - 30	100	72	3,175,862	3,084,666
31 - 40	5,205	4,471	4,065,678	3,299,250
41 - 50	29,021	20,599	1,907,863	1,257,709
51 - 67	1,953	1,524	877,494	459,008
68 AND OVER	-	-	212,683	78,688
TOTAL	68,323	62,959	13,147,821	11,386,689

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS AND ARE NOT DIRECTLY COMPARABLE WITH THE VOLUME DATA PUBLISHED IN THE GENERAL REVIEW AND REGIONAL TABLES WHICH REPRESENT THE ROUND WEIGHT OF THE CATCH. THE POUNDS OF HEADS-OFF SHRIMP MAY BE CONVERTED TO HEADS-ON (ROUND) WEIGHT BY MULTIPLYING BROWN SHRIMP BY 1.61, PINK BY 1.60, WHITE BY 1.54, AND ROYAL RED BY 1.80.

SOUTH ATLANTIC SHRIMP LANDINGS, BY SPECIES AND SIZE, 1970

SPECIES AND SIZE	NORTH CAROLINA		SOUTH CAROLINA		GEORGIA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BROWN:						
15 - 20	205,362	235,801	318	398	1,548	1,923
21 - 25	402,498	423,099	108,975	125,953	104,266	120,006
26 - 30	411,329	368,084	453,952	463,764	306,736	306,970
31 - 40	761,439	555,894	492,959	409,294	209,213	182,086
41 - 50	356,557	231,026	103,933	76,504	10,509	7,855
51 - 67	199,550	104,410	283	175	1,530	978
68 AND OVER	43,241	18,850	-	-	-	-
TOTAL	2,379,976	1,937,164	1,160,420	1,076,088	633,802	619,818
PINK:						
21 - 25	6,781	7,323	-	-	-	-
26 - 30	62,096	57,478	-	-	-	-
31 - 40	153,872	131,634	-	-	415	427
41 - 50	248,996	163,747	-	-	360	292
51 - 67	62,490	33,714	-	-	-	-
TOTAL	534,235	393,896	-	-	775	719
WHITE:						
15 - 20	-	-	288	374	9,180	11,474
21 - 25	-	-	419,116	458,092	541,802	602,593
26 - 30	29,356	25,490	604,426	585,650	717,666	709,849
31 - 40	97,566	71,267	668,819	563,180	1,073,601	894,492
41 - 50	71,214	44,646	239,264	159,285	515,328	345,737
51 - 67	40,708	20,304	62,120	33,456	316,922	165,925
68 AND OVER	-	-	7,697	2,610	55,668	20,441
TOTAL	238,844	161,707	2,001,730	1,802,647	3,230,167	2,750,511
GRAND TOTAL	3,153,055	2,492,767	3,162,150	2,878,735	3,864,744	3,371,048

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SOUTH ATLANTIC SHRIMP LANDINGS, BY SPECIES AND SIZE, 1970 - Continued

SPECIES AND SIZE	FLORIDA, EAST COAST		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BROWN:				
15 - 20	29,135	34,778	236,363	272,900
21 - 25	50,574	56,028	666,313	725,086
26 - 30	74,628	71,277	1,246,645	1,210,095
31 - 40	51,743	42,297	1,515,354	1,189,571
41 - 50	24,605	17,444	495,604	332,829
51 - 67	21,506	14,650	222,869	120,213
68 AND OVER	4,123	2,110	47,364	20,960
TOTAL	256,314	238,584	4,430,512	3,871,654
PINK:				
15 - 20	1,567	1,869	1,567	1,869
21 - 25	-	-	6,781	7,323
26 - 30	-	-	62,096	57,478
31 - 40	1,288	1,032	155,575	133,093
41 - 50	-	-	249,356	164,039
51 - 67	-	-	62,490	33,714
TOTAL	2,855	2,901	537,865	397,516
WHITE:				
15 - 20	69,846	85,496	79,314	97,344
21 - 25	924,941	1,005,868	1,885,859	2,066,553
26 - 30	515,573	496,032	1,867,021	1,817,021
31 - 40	549,558	443,176	2,389,544	1,972,115
41 - 50	308,076	190,574	1,133,882	740,242
51 - 67	170,432	83,872	590,182	303,557
68 AND OVER	101,954	34,677	165,319	57,728
TOTAL	2,640,380	2,339,695	8,111,121	7,054,560
ROYAL RED:				
21 - 25	32,044	36,293	32,044	36,293
26 - 30	100	72	100	72
31 - 40	5,205	4,471	5,205	4,471
41 - 50	29,021	20,599	29,021	20,599
51 - 67	1,953	1,524	1,953	1,524
TOTAL	68,323	62,959	68,323	62,959
GRAND TOTAL	2,967,872	2,644,139	13,147,821	11,386,689

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON WEIGHT MULTIPLY BY 1.61 FOR BROWN, 1.60 FOR PINK, 1.54 FOR WHITE, 1.53 FOR SEA BOBS, AND 1.80 FOR ROYAL RED. THE STATES LISTED REPRESENT THE STATES WHERE THE SHRIMP WERE LANDED REGARDLESS OF WHERE CAUGHT. THE NAMES OF THE SPECIES USED IN THESE TABLES ARE AS FOLLOWS: WHITE SHRIMP (MOSTLY PENAEUS SETIFERUS), BROWN SHRIMP (MOSTLY PENAEUS AZTECUS), PINK SHRIMP (MOSTLY PENAEUS DUORARUM), SEA BOBS (MOSTLY XIPHOPENAEUS KROYERI), AND ROYAL RED (MOSTLY HYMENOPENAEUS ROBUSTUS). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSELS FOR THE FIRST SALE AT THE DOCK. ANY EXPENSES INVOLVED IN HANDLING OR PROCESSING ASHORE ARE NOT INCLUDED, EVEN THOUGH CHARGEABLE TO THE VESSELS. THE SIZE REPORTED GENERALLY IS THAT USED AS OF THE FIRST SALE. SIZE GRADING IN VARYING DEGREES OF UNIFORMITY MAY OR MAY NOT OCCUR AT, OR PRIOR TO, THE TIME FIRST SALES ARE MADE. IF GRADING IS NOT DONE AT THIS TIME, THE SIZE REPORTED IS AN AVERAGE SIZE AND MAY INCLUDE SEVERAL SIZE CLASSIFICATIONS.

SECTION 6 - GULF FISHERIES

The commercial landings of fish and shellfish at ports of the Gulf States (West Coast of Florida, Alabama, Mississippi, Louisiana, and Texas) were 1.7 billion pounds worth $166.6 million--a gain of 83.6 million pounds (5 percent) and $14.3 million (9 percent) compared with 1969. Record landings of menhaden and excellent landings of shrimp were major factors contributing to the greater volume and value. Fishermen received high prices for shrimp during most of the year.

Louisiana led in volume of landings with a record 1.1 billion pounds (65 percent), followed by Mississippi with 297.8 million (17 percent); Texas, 147.0 million (9 percent); Florida, West Coast, 116.5 million (7 percent); and Alabama, 29.6 million pounds (2 percent). Compared with 1969, the value of landings increased in all States except Alabama. The value of Louisiana landings ($61.1 million) was up 12 percent; Texas ($53.3 million), up 13 percent; Florida, West Coast ($31.2 million), up 6 percent; and Mississippi ($11.1 million), up 5 percent. The value of landings in Alabama ($9.9 million) declined 6 percent.

Fishermen and vessels. Commercial fishermen numbered 24,891--a decline of 227 compared with 1969. A decrease of 420 fishermen in the boat and shore fishery accounted for most of the decline. Vessels (craft of 5 net tons or more) numbered 4,320--the same as in 1969.

According to records of the U.S. Department of Transportation, 249 vessels with home ports in the Gulf of Mexico received first documents as fishing craft in 1970. Of this number, 235 were newly constructed. About 135 of them joined the Gulf shrimp fleet; and another 51, built for U.S. citizens in the fishery trade, operated out of countries in South America. The remaining vessels either entered the commercial fishery for oysters, red snapper, menhaden, and other species, or were used as charter craft.

Processed products. The value of processed seafood items was $325.7 million--an increase of $16.1 million compared with 1969. Louisiana led in production with products valued at $102.4 million, followed by Texas with $88.9 million; Florida, West Coast, $80.8 million; Mississippi, $33.0 million; and Alabama, $20.6 million. The five States had 13,427 persons employed in 817 wholesaling and processing plants.

Weather. In August, the shrimp industry at Aransas Pass and Rockport, Tex., was badly damaged by hurricane Celia. The winds reached a velocity of about 145 m.p.h. and sank 36 large shrimp trawlers, beached 32, and severely damaged the hulls of 38. In addition, about 25 small shrimp trawlers were either destroyed or badly damaged. Many processing plants on shore were also damaged extensively. The total loss to fishing craft and shore installations was estimated at a minimum of $3 million.

Menhaden. Landings were a record 1.2 billion pounds--5 percent more than in 1969, the former record year. The menhaden fishery had 76 purse seiners operating in 1970--the same as in 1969. Most of the fish were taken in the coastal waters of Louisiana. Record landings of 959.8 million pounds in Louisiana accounted for 79 percent of the production.

Compared with 1969, prices of menhaden meal and oil increased despite greater production in the Gulf States. The improved prices resulted mainly from a decline in total available supplies in the United States. In 1970, imports of fish meal (251,500 tons) were 30 percent less than in 1969, and the smallest quantity imported since 1961.

Shrimp. For the fourth consecutive year, landings exceeded 200 million pounds. Landings of 230.5 million pounds (heads-on) were 15 percent greater than in 1969, and second only to the record 237.2 million pounds taken in 1954. Compared with 1969, landings increased in all States. Louisiana led for the second consecutive year with 90.9 million pounds (up 10 percent), Texas was next with 88.3 million (up 25 percent); Florida, West Coast, 26.6 million (up 16 percent); Alabama, 15.0 million (up nearly 1 percent); and Mississippi, 9.6 million (up 8 percent).

The exvessel value of landings was a record $108.2 million--an increase of 7 percent compared with 1969. The average price declined, however, from 50 cents per pound in 1969 to 47 cents in 1970, probably because shrimp supplies were abundant. Jumbo and large shrimp (under 15 to 30 tails per pound) averaged 6 to 12 cents less per pound than in 1969; medium shrimp (31 to 50 tails per pound) were 10 to 11 cents less; and most of the smaller shrimp were 4 to 8 cents less per pound.

Fishing on most of the major grounds improved compared with 1969. Record catches from the inshore and offshore waters between the Mississippi River and the Louisiana-Texas border contributed substantially to the greater production. The 59.5 million pounds (heads-off) taken from these waters increased 19 percent compared with 1969, and 14 percent compared with 1963, the former record year. Waters from three areas yielded catches that increased 26 percent each compared with 1969--off Texas (44.4 million pounds), off the Mexican coast west of long. 94° W. (5.2 million), and off the northwest coast of Florida (2.5 million pounds). The Sanibel-Tortugas grounds produced 11.4 million pounds--a 16-percent gain compared with 1969. Catches declined slightly on the Obregon-Campeche grounds and from Pensacola to the Mississippi River.

The species composition was about the same as in 1969. Brown shrimp were 56 percent of the total landings; white, 32 percent; pink, 11 percent; and sea bobs and royal red shrimp, 1 percent. Jumbo and large shrimp accounted for 38 percent of the landings, compared with 33 percent in 1969; medium shrimp were 27 percent, compared with 29 percent in 1969; and small shrimp were 35 percent, compared with 38 percent in 1969.

Hard blue crabs. Landings of 34.0 million pounds worth $2.8 million increased 2 percent in volume, but declined 9 percent in value compared with 1969. Florida, West Coast landings of 14.8 million pounds were 3.2 million greater than in 1969 and accounted for most of the gain. Mississippi landings (2 million pounds) increased 16 percent compared with 1969. Louisiana landings of 10.3 million pounds was 12 percent less than in 1969, but the third best yield since 1955. Landings in Texas of 5.5 million pounds were only slightly less than the record 6.3 million taken in the previous year. Alabama landings of 1.4 million pounds were the smallest since 1963.

Oysters. Landings of 17.7 million pounds of meats were 2.1 million less than in 1969 and the smallest landings since 1966. Compared with 1969, landings declined in all States except Texas. Landings along the West Coast of Florida (3.6 million pounds) declined 27 percent, principally because oysters were scarce on the major reefs of Florida near Apalachicola. A poor fall season contributed to the decline. Alabama landings of 279,000 pounds were 42 percent less than in 1969 and the smallest landings in 40 years. Many oyster reefs had only partially recovered from the devastating effects of hurricane Camille in 1969, and in addition the Alabama oyster fishery had been hindered for some time by pollution. In Mississippi, landings of 548,000 pounds declined 62 percent--principally because the oyster beds had been decimated by hurricane Camille in 1969. Louisiana landings of 8.6 million pounds were 6 percent less than in 1969--reflecting the shortage of oysters on many reefs. In Texas, landings of 4.7 million pounds increased 24 percent. Texas producers profited by the shortage of oysters in other areas and trucked considerable quantities to Alabama, Mississippi, and Louisiana.

Spiny lobsters. Record landings of 7.1 million pounds worth a record $4.2 million were 2.4 million pounds (52 percent) and $882,000 (27 percent) more than in 1969. The average price per pound declined from 71 cents in 1969 to 60 cents in 1970.

In 1969, United States fishermen made substantial catches in waters off the Bahama Islands. In 1970, however, they could no longer fish for lobsters in these productive areas because the Bahamian Government had established a 12-mile territorial sea limit which was enforced rigorously. Consequently, U.S. flag vessels searched other fishing grounds for lobsters and found an abundance of them off the coasts of Central and South America. A few of the catches taken off foreign coasts were landed in Mississippi instead of Florida where the closed season for lobsters was in effect. Lobster landings in Florida are prohibited by law during the closed season, regardless of the origin of the catch.

Food finfish. Compared with 1969, several major species including red snapper, mullet, spanish mackerel, groupers, and fresh-water catfish declined in volume. Red snapper landings were 8.5 million pounds--a decrease of 1.0 million and the smallest yield since 1954. Landings declined in all States except Louisiana. The value of $3.8 million was $161,000 less than in 1969. Red snapper landings were usually not sufficient to supply the market, and exvessel prices continued to trend upward. The average price per pound was 45 cents--compared with 42 cents in 1969 and 34 cents in 1968. The higher prices, however, did not increase the profit margin appreciably for vessel owners because smaller catches on Gulf of Mexico grounds caused snapper vessels to search out new grounds farther afield, off the coasts of Central and South America. These long trips increased operating costs. Mullet landings were 26.5 million pounds--10 percent less than in 1969. The average price of 8-1/2 cents per pound was about the same as in 1969. The spanish mackerel production of 8.2 million pounds was just slightly less than the record landings of the previous year. Landings of both groupers (7.5 million pounds) and fresh-water catfish (4.3 million) declined 2 percent compared with 1969.

Compared with 1969, landings of several important species increased. Landings of 4.9 million pounds of spotted sea trout worth $1.4 million increased 6 percent in both volume and value. The pompano fishery, centered in Florida, reached a production of 906,000 pounds worth $1.0 million--an increase of 36 percent in volume and 59 percent in value compared with 1969. The average price of 95 cents per pound in 1969 increased to $1.11 in 1970. Croaker landings of 7.4 million pounds worth $989,000 were 2.2 million pounds and $315,000 greater than in 1969. The trawl fishery for croaker increased markedly as fishermen strove to supply the market for croaker created by the declining yield off the Atlantic coast.

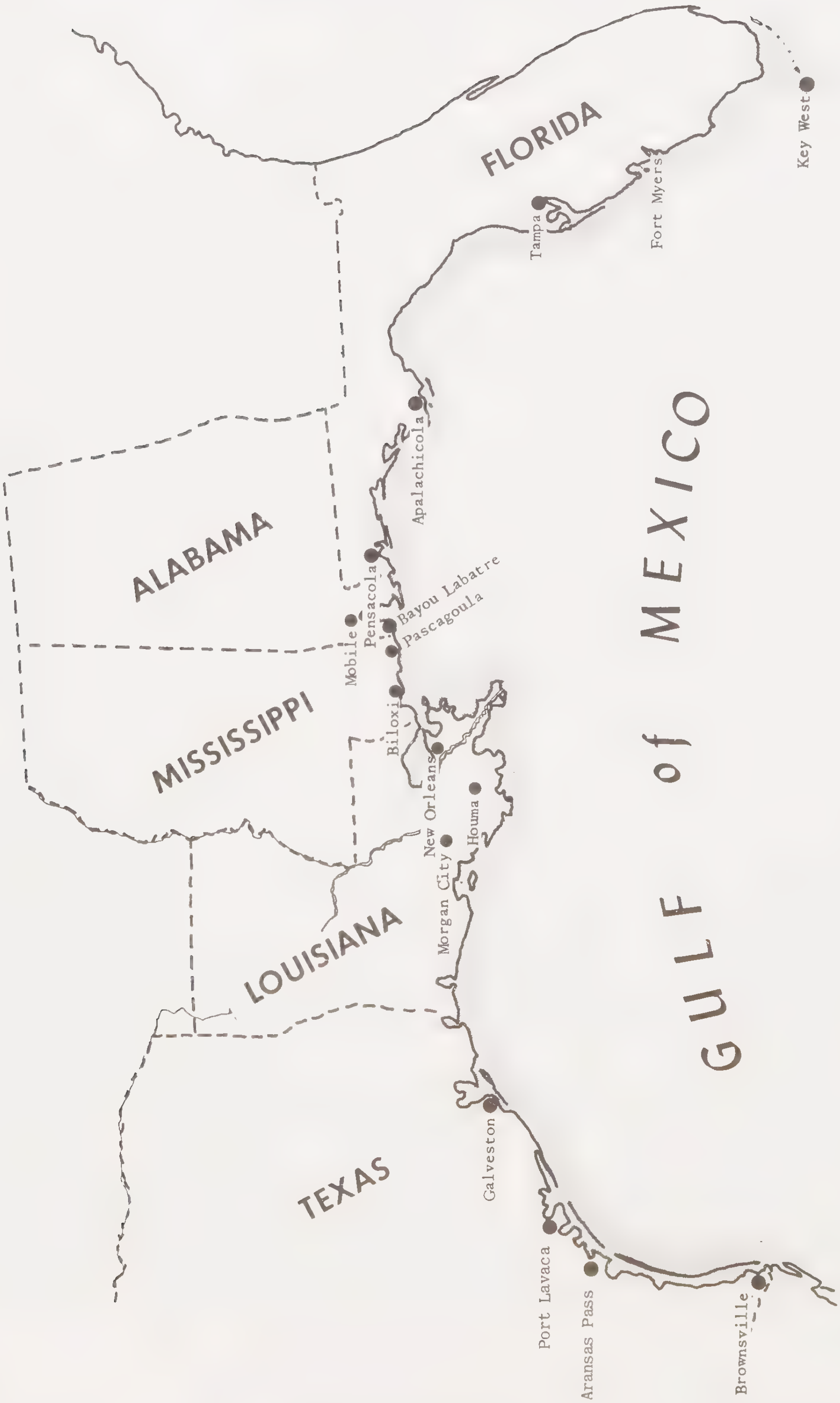
Pollution. The discovery of mercury pollution in a few bays and rivers along the Gulf coast, mainly in areas seldom fished commercially, resulted in nation wide publicity that curtailed sales of fish and shellfish for a considerable time.

The additional discovery of mercury in swordfish in proportions that exceeded the U.S. Food and Drug Administration's definition of safe consumption levels discouraged a promising new fishery in the Gulf of Mexico. Findings of the NMFS exploratory fishing program had indicated that swordfish were available in the deep waters of the Gulf, especially during the winter--when they are absent on the regularly fished grounds off the Atlantic coast. Acting on this information, a few longliners from the Atlantic coast entered the fishery in the Gulf in 1968 and 1969, and made good catches. Fishermen received excellent prices as fresh swordfish was usually not on the market at that time of the year. Accordingly, several owners of Gulf shrimp trawlers converted their vessels for the longline swordfish fishery and were ready to operate at the time the high mercury content was discovered in swordfish. As a result of the discovery, vessel owners lost considerable fishing time and sustained financial loss in converting trawlers to longliners.

Other information. Seasonal variations in landings of fish and shellfish in Florida, Alabama, Mississippi, Louisiana, and Texas can be ascertained from the monthly and annual landings bulletins published in the Current Fishery Statistics Series by the Statistics and Market News Division in cooperation with the respective States. Additional data on many aspects of the Gulf fisheries may be found in the daily, monthly, and annual reports published by the NMFS Fishery Market News Service in New Orleans, La.

Acknowledgments. The following organizations helped collect the data appearing in this section: Florida State Board of Conservation, Alabama Department of Conservation, Mississippi Marine Conservation Commission, Louisiana Wild Life and Fisheries Commission, and Texas Parks and Wildlife Department.

GULF FISHERIES


FLORIDA
ALABAMA
MISSISSIPPI
LOUISIANA
TEXAS
GULF of MEXICO
Key West
Fort Myers
Tampa
Apalachicola
Pensacola
Bayou Labatre
Pascagoula
Mobile
Biloxi
New Orleans
Houma
Morgan City
Galveston
Port Lavaca
Aransas Pass
Brownsville

GULF STATES

GULF FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
FLORIDA, WEST COAST	62	10	55	21	116	31
ALABAMA	13	2	17	8	30	10
MISSISSIPPI	285	7	12	4	298	11
LOUISIANA	996	21	111	40	1,107	61
TEXAS	48	2	99	51	147	53
TOTAL	1,404	42	294	125	1,698	167

NOTE:--THIS TABLE MAY NOT ADD DUE TO ROUNDING. FOR THE PURPOSE OF THIS REPORT THE "WEST COAST OF FLORIDA" INCLUDES THE COASTAL COUNTIES FROM MONROE TO ESCAMBIA, INCLUSIVE.

SUMMARY OF OPERATING UNITS, 1970

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
FISHERMEN:						
ON VESSELS.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ON BOATS AND SHORE:						
REGULAR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CASUAL.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VESSELS, MOTOR.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GROSS TONNAGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BOATS:						
MOTOR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OTHER	[illegible]	[illegible]		10		[illegible]
GEAR:						
HAUL SEINES, COMMON . . .	76	-	-	16	22	114
LENGTH, YARDS	51,350	-	-	3,780	8,100	63,230
PURSE SEINES:						
HERRING	5	-	-	-	-	5
LENGTH, YARDS	1,400	-	-	-	-	1,400
MENHADEN.	-	-	17	63	11	76
LENGTH, YARDS	-	-	8,550	35,240	5,345	41,690
OTHER	8	-	-	-	-	8
LENGTH, YARDS	2,740	-	-	-	-	2,740
LAMPARA NETS.	1	-	-	-	-	1
LENGTH, YARDS	250	-	-	-	-	250
BUTTERFLY NETS, SHRIMP. .	-	-	-	865	-	865
YARDS AT MOUTH.	-	-	-	3,297	-	3,297
OTTER TRAWLS:						
FISH.	-	-	58	24	-	82
YARDS AT MOUTH. . . .	-	-	1,287	513	-	1,800
SHRIMP.	1,626	922	1,311	6,233	3,554	10,690
YARDS AT MOUTH. . . .	27,628	15,528	18,143	98,503	61,382	167,897
FYKE AND HOOP NETS, FISH.	-	120	-	14,080	-	14,200
POTS AND TRAPS:						
CRAB:						
BLUE.	30,940	14,100	4,600	75,760	14,300	139,700
OTHER	60,800	-	-	-	-	60,800
CRAWFISH.	-	-	-	21,400	-	21,400
FISH.	283	75	-	2,076	-	2,434
LOBSTER, SPINY.	150,050	-	900	-	-	150,750
GILL NETS:						
ANCHOR, SET, OR STAKE. .	18	-	2	434	18	472
SQUARE YARDS.	5,000	-	9,000	110,739	6,800	131,539
DRIFT	7	-	-	-	-	7
SQUARE YARDS.	21,550	-	-	-	-	21,550
RUNAROUND	846	18	4	-	-	868
SQUARE YARDS.	1,284,831	10,800	4,400	-	-	1,300,031
TRAMMEL NETS.	294	100	36	114	70	614
SQUARE YARDS.	323,073	99,400	18,650	54,050	27,000	522,173
LINES:						
HAND.	2,224	114	156	100	383	2,957
HOOKS	7,710	760	1,615	273	1,451	11,517
TROLL	911	-	-	-	-	911
HOOKS	911	-	-	-	-	911

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EX-CLUSIVE OF DUPLI-CATION
	NUMBER					
GEAR - CONTINUED:						
LINES - CONTINUED:						
LONG OR SET WITH HOOKS	37	2	5	1,533	136	1,712
HOOKS	7,700	2,300	6,450	508,514	124,600	648,364
TROT WITH BAITS	-	-	2	1,197	2	1,201
BAITS	-	-	1,200	217,620	600	219,420
DIP NETS:						
COMMON	12	-	-	15	-	27
DROP	150	-	-	10,520	-	10,670
CAST NETS	13	-	-	-	-	13
SPEARS	60	58	-	-	67	185
DREDGES:						
CLAM	2	-	-	-	-	2
YARDS AT MOUTH	2	-	-	-	-	2
OYSTER, COMMON	-	6	214	837	305	1,301
YARDS AT MOUTH	-	7	259	1,001	305	1,505
SCALLOP, BAY	112	-	-	-	-	112
YARDS AT MOUTH	112	-	-	-	-	112
TONGS:						
OYSTER	673	536	470	139	33	1,851
OTHER	1	-	-	-	-	1
BRUSH TRAPS	-	-	-	41,730	-	41,730
GRABS, FROG	-	-	-	37	-	37
HOOKS, SPONGE	29	-	-	-	-	29
DIVING OUTFITS, SPONGE	9	-	-	-	-	9

LANDINGS BY STATES, 1970

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	251	10	-	-	-	-
AMBERJACK	20	2	-	-	-	-
ANGELFISH	6	(1)	-	-	-	-
BALLYHOO	268	45	-	-	-	-
BARRACUDA	1	(1)	-	-	-	-
BLUEFISH	650	62	22	2	22	2
BLUE RUNNER	1,378	62	(1)	(1)	-	-
BONITO	34	2	-	-	-	-
BUFFALOFISH	-	-	4	(1)	-	-
CABIO	60	5	13	1	-	-
CATFISH AND BULLHEADS	21	5	11	4	-	-
CIGARFISH	259	39	-	-	-	-
CREVALLE	576	22	-	-	-	-
CROAKER	936	132	5,691	739	332	57
DOLPHIN	63	7	-	-	-	-
DRUM:						
BLACK	50	4	24	1	53	3
RED	667	111	35	4	70	9
FLOUNDERS	290	68	781	135	152	20
GROUPERS	6,902	1,298	265	33	266	39
GRUNTS	315	44	-	-	-	-
HERRING, THREAD	520	16	-	-	-	-
HOGFISH	23	5	-	-	-	-
JEWFISH	130	10	73	8	-	-
KING WHITING OR "KINGFISH"	292	19	565	33	269	18
MACKEREL:						
KING	2,372	320	-	-	-	-
SPANISH	8,100	939	126	26	43	5
MENHADEN	617	22	-	-	205,980	3,888
MOJARRA	156	19	-	-	-	-
MULLET:						
BLACK (LISA)	23,139	2,039	3,112	192	162	9
SILVER	501	46	-	-	-	-
PADDLEFISH	-	-	2	(1)	-	-
PERMIT	12	1	-	-	-	-
PIGFISH	34	3	-	-	-	-
POMPANO	852	964	2	1	-	-
SCUP OR PORGY	72	10	-	-	-	-
SEA BASS	149	17	-	-	-	-
SEA CATFISH	100	7	120	6	44	2

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SEA TROUT OR WEAKFISH:						
SPOTTED	2,643	812	84	26	255	63
WHITE	256	24	751	43	105	8
SHARKS, UNCLASSIFIED. . . .	6	(1)	-	-	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	2	(1)	-	-
SALT-WATER.	263	27	182	9	69	5
SNAPPERS:						
LANE.	14	3	-	-	-	-
MANGROVE.	442	112	-	-	-	-
MUTTON.	234	85	-	-	-	-
RED	3,864	2,122	983	326	2,519	930
VERMILION	118	46	-	-	-	-
YELLOWTAIL.	987	384	-	-	-	-
SPANISH SARDINES.	421	21	-	-	-	-
SPOT.	250	23	44	3	3	(1)
STURGEON, COMMON.	18	2	-	-	-	-
SWORDFISH	56	23	3	3	287	223
TENPOUNDER.	684	22	-	-	-	-
TILEFISH.	5	1	-	-	-	-
TRIGGERFISH	24	2	-	-	-	-
TRIPLETAIL.	(1)	(1)	-	-	-	-
WARSAW.	187	24	-	-	-	-
UNCLASSIFIED:						
FOR FOOD.	1,289	120	-	-	3	(1)
FOR BAIT, REDUCTION, AND ANIMAL FOOD.	241	9	-	-	74,742	1,460
TOTAL FISH.	61,818	10,217	12,895	1,595	285,376	6,741
SHELLFISH ET AL.						
CRABS:						
BLUE:						
HARD.	14,786	1,076	1,407	144	2,027	193
SOFT AND PEELER	(1)	(1)	-	-	-	-
STONE	1,502	770	-	-	-	-
TOTAL CRABS	16,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LOBSTERS, SPINY	6,852	4,088	-	-	212	119
SHRIMP, SALT-WATER.	26,564	13,108	15,031	8,040	9,604	3,810
CLAMS:						
HARD, PUBLIC.	10	5	-	-	-	-
SUNRAY VENUS.	760	76	-	-	-	-
TOTAL CLAMS	770	81	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	2,146	887	123	63	327	138
FALL.	1,223	502	123	76	132	64
PRIVATE:						
SPRING.	144	60	30	17	89	36
FALL.	60	26	3	2	-	-
TOTAL OYSTERS	3,573	1,475	279	158	548	238
SCALLOPS, BAY	104	56	-	-	-	-
SQUID	36	5	8	(1)	-	-
TURTLES:						
GREEN	411	90	-	-	-	-
LOGGERHEAD.	22	3	-	-	-	-
SPONGES:						
GRASS	1	1	-	-	-	-
SHEEPSWOOL.	28	247	-	-	-	-
YELLOW.	3	5	-	-	-	-
TOTAL SHELLFISH ET AL.	54,652	21,005	16,725	8,342	12,391	4,360
GRAND TOTAL	116,470	31,222	29,620	9,937	297,767	11,101

SPECIES	LOUISIANA		TEXAS		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES.	-	-	-	-	251	10
AMBERJACK	-	-	-	-	20	2
ANGELFISH	-	-	-	-	6	(1)
BALLYHOO.	-	-	-	-	268	45

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	LOUISIANA		TEXAS		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
FISH - CONTINUED						
BARRACUDA	-	-	-	-	1	(1)
BLUEFISH	(1)	(1)	-	-	694	66
BLUE RUNNER	-	-	-	-	1,378	62
BONITO	-	-	-	-	34	2
BOWFIN	9	(1)	-	-	9	(1)
BUFFALOFISH	773	105	24	3	801	108
CABIO	15	1	18	2	106	9
CARP	37	1	-	-	37	1
CATFISH AND BULLHEADS	4,227	1,214	4	1	4,263	1,224
CIGARFISH	-	-	-	-	259	39
CREVALLE	-	-	-	-	576	22
CROAKER	369	55	107	6	7,435	989
DOLPHIN	-	-	-	-	63	7
DRUM:						
BLACK	434	33	783	84	1,344	125
RED	789	127	1,586	350	3,147	601
FLOUNDERS	480	85	297	65	2,000	373
GARFISH	523	40	30	1	553	41
GROUPERS	5	(1)	59	6	7,497	1,376
GRUNTS	-	-	-	-	315	44
HERRING, THREAD	-	-	-	-	520	16
HOGFISH	-	-	-	-	23	5
JEWFISH	6	1	-	-	209	19
KING WHITING OR "KINGFISH"	407	22	63	4	1,596	96
MACKEREL:						
KING	-	-	-	-	2,372	320
SPANISH	29	2	-	-	8,298	972
MENHADEN	959,810	18,931	43,060	903	1,209,467	23,744
MOJARRA	-	-	-	-	156	19
MULLET:						
BLACK (LISA)	38	2	11	1	26,462	2,243
SILVER	-	-	-	-	501	46
PADDLEFISH	1	(1)	-	-	3	(1)
PERMIT	-	-	-	-	12	1
PIGFISH	-	-	-	-	34	3
POMPANO	50	43	2	1	906	1,009
SAWFISH	2	(1)	-	-	2	(1)
SCUP OR PORGY	-	-	-	-	72	10
SEA BASS	-	-	-	-	149	17
SEA CATFISH	121	8	33	2	418	25
SEA TROUT OR WEAKFISH:						
SPOTTED	786	217	1,157	256	4,925	1,374
WHITE	140	10	1	(1)	1,253	85
SHARKS, UNCLASSIFIED	6	(1)	-	-	12	(1)
SHEEPSHEAD:						
FRESH-WATER	284	33	-	-	286	3
SALT-WATER	224	12	176	14	914	67
SNAPPERS:						
LANE	-	-	-	-	14	3
MANGROVE	-	-	-	-	442	112
MUTTON	-	-	-	-	234	85
RED	255	71	916	380	8,537	3,829
VERMILION	-	-	-	-	118	46
YELLOWTAIL	-	-	-	-	987	384
SPANISH SARDINES	-	-	-	-	421	21
SPOT	39	2	-	-	336	28
STURGEON, COMMON	-	-	-	-	18	2
SWORDFISH	-	-	-	-	346	249
TENPOUNDER	-	-	-	-	684	22
TILEFISH	-	-	-	-	5	1
TRIGGERFISH	-	-	-	-	24	2
TRIPLETAIL	11	1	-	-	11	1
WARSAW	-	-	-	-	187	24
UNCLASSIFIED:						
FOR FOOD	-	-	105	5	1,397	125
FOR BAIT, REDUCTION, AND ANIMAL FOOD	26,075	392	27	1	101,085	1,862
TOTAL FISH	995,945	21,408	48,459	2,085	1,404,493	42,046
SHELLFISH ET AL.						
CRABS:						
BLUE:						
HARD	10,254	928	5,525	509	33,999	2,850
SOFT AND PEELER	90	79	-	-	90	79
STONE	-	-	-	-	1,502	770
TOTAL CRABS	10,344	1,007	5,525	509	35,591	3,699

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	LOUISIANA		TEXAS		TOTAL	
SHELLFISH ET AL. - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CRAWFISH, FRESH-WATER . . .	1,351	403	-	-	1,351	403
LOBSTER, SPINY.	-	-	-	-	7,064	4,207
SHRIMP:						
FRESH-WATER	9	2	-	-	9	2
SALT-WATER.	90,939	34,612	88,327	48,614	230,465	108,184
CLAMS:						
HARD, PUBLIC.	-	-	-	-	10	5
SUNRAY VENUS.	-	-	-	-	760	76
TOTAL CLAMS	-	-	-	-	770	81
OYSTERS, MARKET:						
PUBLIC:						
SPRING.	513	194	2,707	1,110	5,816	2,392
FALL.	140	74	1,809	844	3,427	1,560
PRIVATE:						
SPRING.	5,672	2,136	50	26	5,985	2,275
FALL.	2,314	1,227	109	60	2,486	1,315
TOTAL OYSTERS	8,639	3,631	4,675	2,040	17,714	7,542
SCALLOPS, BAY	-	-	-	-	104	56
SQUID	1	(1)	10	1	55	6
TERRAPIN.	(1)	(1)	-	-	(1)	(1)
TURTLES:						
BABY.	(1)	1	-	-	(1)	1
GREEN	2	(1)	-	-	413	90
LOGGERHEAD.	-	-	-	-	22	3
SNAPPER	14	4	-	-	14	4
FROGS	7	4	-	-	7	4
SPONGES:						
GRASS	-	-	-	-	1	1
SHEEPSWOOL.	-	-	-	-	28	247
YELLOW.	-	-	-	-	3	5
TOTAL SHELLFISH ET AL.	111,306	39,664	98,537	51,164	293,611	124,535
GRAND TOTAL	1,107,251	61,072	146,996	53,249	1,698,104	166,581

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS ARE SHOWN IN ROUND (LIVE) WEIGHT EXCEPT FOR SHELL MOLLUSKS. CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; SCALLOPS, IN WEIGHT OF EDIBLE MEATS.

GULF FISHERIES

LANDINGS OF CERTAIN SHELLFISH, 1970

SPECIES	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI		LOUISIANA		TEXAS		TOTAL	
	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS	U.S. STANDARD BUSHELS	DOLLARS
CLAMS:												
HARD, PUBLIC.	1,118	5,216	-	-	-	-	-	-	-	-	1,118	5,216
SUNRAY VENUS.	111,735	75,979	-	-	-	-	-	-	-	-	111,735	75,979
OYSTERS, MARKET:												
PUBLIC:												
SPRING.	485,588	887,452	21,734	62,743	75,694	137,951	91,753	194,403	524,632	1,110,338	1,199,401	2,392,887
FALL.	376,308	501,757	23,984	76,054	30,771	63,904	32,506	74,197	394,052	844,124	857,621	1,560,036
PRIVATE:												
SPRING.	30,126	59,989	5,416	16,834	20,555	35,676	1,014,651	2,135,556	13,168	26,250	1,083,916	2,274,305
FALL.	18,006	25,562	625	1,869	-	-	536,891	1,226,410	28,654	60,037	584,176	1,313,878
SCALLOPS, BAY	23,813	56,505	-	-	-	-	-	-	-	-	23,813	56,505

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN SHELLFISH, 1970

SPECIES	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL				
CLAMS:					
HARD, PUBLIC.	8.50	-	-	-	-
SUNRAY VENUS.	6.80	-	-	-	-
OYSTERS, MARKET:					
PUBLIC:					
SPRING.	4.42	5.65	4.32	5.59	5.16
FALL.	3.25	5.12	4.28	4.31	4.59
PRIVATE:					
SPRING.	4.78	5.65	4.32	5.59	3.82
FALL.	3.36	5.12	-	4.31	3.79
SCALLOPS, BAY	4.38	-	-	-	-

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

GULF FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
DRUM, RED, FILLETS FRESH.	POUNDS	(1)	(1)	-	-	-	-
FLOUNDERS, FROZEN:							
FILLETS, BREADED RAW.	DO	(1)	(1)	(1)	(1)	-	-
SPECIALTIES (STUFFED BREADED RAW OR COOKED).	DO	(1)	(1)	(1)	(1)	-	-
GROUPER FILLETS AND STEAKS, FRESH AND FROZEN.	DO	(1)	(1)	(1)	(1)	-	-
HERRING, THREAD, MEAL AND SCRAP .	TONS	(1)	(1)	-	-	-	-
KING MACKEREL FILLETS, FROZEN . .	POUNDS	(1)	(1)	-	-	-	-
MENHADEN:							
MEAL AND SCRAP.	TONS	-	-	-	-	21,195	3,834,380
OIL	1,000 LBS	-	-	-	-	24,945	2,234,[illegible]34
SOLUBLES.	TONS	-	-	-	-	10,[illegible]	445,426
MULLET:							
FRESH AND FROZEN:							
ROE	POUNDS	88,125	73,495	-	-	-	-
SPLIT FOR CURING.	DO	(1)	(1)	-	-	-	-
SALTED:							
FISH.	DO	305,040	52,488	57,346	7,[illegible]02	-	-
ROE	DO	15,495	14,981	-	-	-	-
SMOKED.	DO	(1)	(1)	-	-	-	-
OCEAN PERCH FILLETS, BREADED RAW, FROZEN.	DO	(1)	(1)	-	-	-	-
POMPANO FILLETS, FROZEN	DO	(1)	(1)	-	-	-	-
SEA TROUT FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-	-	-
SNAPPER, RED, FILLETS AND STEAKS, FRESH AND FROZEN	DO	(1)	(1)	(1)	(1)	-	-
SPANISH MACKEREL FILLETS, FRESH AND FROZEN	DO	1,980,406	720,[illegible]1	-	-	-	-
TRIGGERFISH FILLETS, FRESH. . . .	DO	(1)	(1)	-	-	-	-
CRABS:							
BLUE:							
FRESH AND FROZEN:							
COOKED MEAT	DO	1,513,819	2,841,226	277,960	[illegible]	338,100	535,940
SPECIALTIES (DEVILED, ROLLS STUFFED, ETC.)	DO	516,550	380,680	(1)	(1)	-	-
CANNED:							
REGULAR	STANDARD CASES	-	-	-	-	(1)	(1)
BACKSHELLS, CLEANED AND POLISHED	-	-	-	-	(1)	-	137,500
MEAL AND SCRAP.	TONS	(1)	(1)	-	-	-	-
STONE CLAWS, COOKED, FRESH AND FROZEN	POUNDS	(1)	(1)	-	-	-	-
LOBSTERS, SPINY FROZEN:							
TAILS, RAW.	DO	(1)	(1)	-	-	-	-
WHOLE, COOKED	DO	(1)	(1)	-	-	-	-
SHRIMP:							
FRESH AND FROZEN:							
RAW HEADLESS.	DO	5,542,924	6,462,314	12,393,514	13,932,044	4,585,100	5,302,4[illegible]0
PEELED (INCLUDING DEVEINED):							
RAW	DO	17,878,[illegible]	25,807,792	(1)	(1)	(1)	(1)
COOKED.	DO	(1)	(1)	-	-	-	-
BREADED, RAW AND COOKED	DO	30,842,522	31,276,073	-	-	(1)	(1)
SPECIALTIES (COCKTAILS, CREOLES, GUMBOS, STUFFED, PATTIES, ETC.)	DO	(1)	(1)	(1)	(1)	-	-
CANNED:							
REGULAR	STANDARD CASES	-	-	-	-	490,334	6,366,088
MEAL AND SCRAP.	TONS	(1)	(1)	-	-	-	-
CLAMS, HARD, SHUCKED FRESH AND FROZEN	GALLONS	(1)	(1)	-	-	-	-
CONCH CHOWDER CANNED.	STANDARD CASES	(1)	(1)	-	-	-	-
OYSTERS:							
FRESH AND FROZEN:							
SHUCKED	GALLONS	313,304	2,380,557	231,113	1,948,514	1[illegible]9,500	1,568,325
BREADED RAW	POUNDS	2,636,757	2,276,127	-	-	-	-
SPECIALTIES (STEWS COOKED, STUFFED, ETC.).	DO	(1)	(1)	-	-	-	-
CANNED:							
REGULAR	STANDARD CASES	-	-	-	-	(1)	(1)
SPECIALTIES (SOUP AND STEWS). .	DO	(1)	(1)	-	-	-	-
SHELL, GRIT AND LIME.	TONS	-	-	(1)	(1)	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GULF FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
SCALLOPS, FRESH AND FROZEN:							
BAY:							
SHUCKED	GALLONS	13,335	120,186	-	-	-	-
BREADED RAW	POUNDS	209,546	196,251	-	-	-	-
SEA, BREADED RAW.	DO	817,184	907,953	-	-	-	-
TURTLE:							
STEAKS, FROZEN	DO	(1)	(1)	-	-	-	-
CANNED, CHOWDER AND SOUP. . .	STANDARD CASES	(1)	(1)	-	-	-	-
UNCLASSIFIED:							
FRESH AND FROZEN, PACKAGED FILLETS, STEAKS, STICKS, PORTIONS AND OTHER FISH AND SHELLFISH	POUNDS	11,253,554	7,308,297	2,637,515	4,118,492	1,078,000	1,142,100
CANNED:							
ANIMAL FOOD	STANDARD CASES	-	-	-	-	2,603,[illegible]52	10,817,200
OTHER	DO	(1)	(1)	-	-	40,488	558,302
CURED	POUNDS	(1)	(1)	-	-	-	-
INDUSTRIAL.	-	-	23,154	-	(1)	-	-
TOTAL	-	-	80.842,435	-	20,575.374	-	32,942,467

ITEM	UNIT	LOUISIANA		TEXAS	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
CATFISH DRESSED, SKINS OFF, FROZEN	POUNDS	(1)	(1)	-	-
FLOUNDERS, FROZEN, SPECIALTIES (STUFFED BREADED, RAW AND COOKED)	DO	28,900	25,600	(1)	(1)
MENHADEN:					
MEAL AND SCRAP.	TONS	104,966	19,346,252	(2)	(2)
OIL	1000 LBS	115,089	10,521,514	(2)	(2)
SOLUBLES.	TONS	33,557	1,717,806	(2)	(2)
TUNA SPECIALTIES (FREEZE-DRIED SALAD MIX).	POUNDS	-	-	(1)	(1)
CRABS:					
BLUE:					
FRESH AND FROZEN:					
COOKED MEAT	DO	539,373	995,342	946,880	1,436,007
SPECIALTIES (DEVILED, ROLLS, DRESSED, STUFFED, ETC.).	DO	317,673	243,447	(1)	(1)
CANNED:					
SPECIALTIES (GUMBOS AND BISQUES)	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (FREEZE-DRIED, SALAD MIX).	POUNDS	-	-	(1)	(1)
CRAWFISH:					
FRESH, COOKED MEAT.	DO	4,750	8,436	-	-
SPECIALTIES:					
FROZEN (BISQUES, SOUPS, ETC.). .	DO	66,094	36,701	-	-
CANNED (BISQUES).	STANDARD CASES	(1)	(1)	-	-
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS.	POUNDS	31,253,241	30,665,151	34,286,518	34,980,617
PEELED (INCLUDING DEVENED):					
RAW	DO	790,419	652,897	12,759,150	19,080,310
COOKED.	DO	2,919,143	4,585,798	(1)	(1)
BREADED, RAW AND COOKED	DO	1,392,029	1,251,116	24,054,692	23,462,801
SPECIALTIES (COCKTAILS, CREOLES, GUMBO, STUFFED, PATTIES, ETC.)	DO	791,455	657,508	(1)	(1)
CANNED:					
REGULAR	STANDARD CASES	2,052,014	20,364,059	(2)	(2)
SPECIALTIES (CREOLES, GUMBOS, BISQUES, AND STEWS)	DO	7,154	108,763	-	-
FREEZE-DRIED (MEAT AND SALAD MIX)	POUNDS	-	-	(1)	(1)
SUN- DRIED.	DO	(1)	(1)	-	-
MEAL AND SCRAP.	TONS	(1)	(1)	-	-
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED	GALLONS	667,479	5,375,075	223,848	1,832,293

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	LOUISIANA		TEXAS	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
OYSTERS-CONTINUED:					
FRESH AND FROZEN-CONTINUED:					
BREADED RAW	POUNDS	(1)	(1)	(1)	(1)
SPECIALTIES (STEWS, COOKED, STUFFED, ETC.).	DO	(1)	(1)	-	-
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (SOUPS AND STEWS)	DO	(1)	(1)	-	-
SHELL, GRIT AND LIME.	TONS	-	-	(1)	(1)
TURTLE, CANNED, (CHOWDERS AND SOUPS).	STANDARD CASES	(1)	(1)	-	-
UNCLASSIFIED:					
FRESH AND FROZEN, PACKAGED FILLETS, STEAKS, STICKS, PORTIONS, AND OTHERFISH AND SHELLFISH	POUNDS	876,782	1,345,004	5,113,679	6,517,977
CANNED:					
ANIMAL FOOD	STANDARD CASES	(3)	(3)	-	-
OTHER	DO	593,078	6,144,464	-	-
CURED	POUNDS	(1)	(1)	(1)	(1)
INDUSTRIAL.	-	-	(1)	-	(1)
TOTAL	-	-	102,416,977	-	88,938,963

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

2/ THE PRODUCTION OF MENHADEN PRODUCTS AND CANNED SHRIMP PRODUCED IN TEXAS HAS BEEN INCLUDED WITH LOUISIANA.

3/ THE PRODUCTION OF ANIMAL FOOD IN LOUISIANA HAS BEEN INCLUDED WITH OTHER CANNED.

NOTE:-- THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT. SOME PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	19,841
FROZEN	217,343
CANNED	44,414
CURED	3,394
INDUSTRIAL	40,724
TOTAL	325,716

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
FLORIDA, WEST COAST	80,842
ALABAMA	20,575
MISSISSIPPI	32,943
LOUISIANA	102,417
TEXAS	88,939
TOTAL	325,716

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
FLORIDA, WEST COAST	138	4,137	3,507	170	526	459	308	4,663	3,966
ALABAMA	43	1,383	875	13	423	186	56	1,806	1,061
MISSISSIPPI	43	1,458	990	19	124	78	62	1,582	1,068
LOUISIANA	122	4,612	3,177	113	643	491	235	5,255	3,668
TEXAS	88	4,069	2,978	68	1,250	686	156	5,319	3,664
TOTAL	434	15,659	11,527	383	2,966	1,900	817	18,625	13,427

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

GULF FISHERIES

FLORIDA, WEST COAST

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES		LAMPARA NETS	OTTER TRAWLS, SHRIMP
		HERRING	OTHER		
	NUMBER				
FISHERMEN:					
ON VESSELS	110	-	11	3	2,033
ON BOATS AND SHORE:					
REGULAR	204	4	6	-	97
CASUAL	3	6	6	-	24
TOTAL	317	10	23	3	2,154
VESSELS, MOTOR	18	-	2	1	813
GROSS TONNAGE	258	-	83	9	48,323
BOATS:					
MOTOR	69	5	6	-	76
OTHER	18	-	-	-	-
GEAR:					
NUMBER	76	5	8	1	1,626
LENGTH, YARDS	51,350	1,400	2,740	250	-
YARDS AT MOUTH	-	-	-	-	27,628

ITEM	POTS AND TRAPS				GILL NETS
	CRAB		FISH	LOBSTER, SPINY	ANCHOR, SET, OR STAKE
	BLUE	OTHER			
	NUMBER				
FISHERMEN:					
ON VESSELS	2	29	2	287	-
ON BOATS AND SHORE:					
REGULAR	215	122	13	331	7
CASUAL	55	40	-	17	12
TOTAL	272	191	15	635	19
VESSELS, MOTOR	1	15	1	123	-
GROSS TONNAGE	9	265	8	3,534	-
BOATS, MOTOR	223	143	13	214	10
GEAR:					
NUMBER	30,940	60,800	283	150,050	18
SQUARE YARDS	-	-	-	-	5,000

ITEM	GILL NETS - CONTINUED		TRAMMEL NETS	LINES	
	DRIFT	RUNAROUND		HAND	TROLL
	NUMBER				
FISHERMEN:					
ON VESSELS	6	211	25	930	88
ON BOATS AND SHORE:					
REGULAR	4	806	354	320	120
CASUAL	-	164	47	871	340
TOTAL	10	1,181	426	2,121	548
VESSELS, MOTOR	3	58	8	257	32
GROSS TONNAGE	31	931	102	7,035	1,053
BOATS, MOTOR	4	788	286	816	353
GEAR:					
NUMBER	7	846	294	2,224	911
SQUARE YARDS	21,550	1,284,831	323,073	-	-
HOOKS OR BAITS	-	-	-	7,710	911

ITEM	LINES - CONTINUED	DIP NETS		CAST NETS	SPEARS
	LONG OR SET WITH HOOKS	COMMON	DROP		
	NUMBER				
FISHERMEN:					
ON VESSELS	14	-	-	-	-
ON BOATS AND SHORE:					
REGULAR	4	9	10	3	39
CASUAL	10	3	-	10	21
TOTAL	28	12	10	13	60

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - OPERATING UNITS BY GEAR, 1970 - Continued

ITEM	LINES - CONTINUED	DIP NETS		CAST NETS	SPEARS
	LONG OR SET WITH HOOKS	COMMON	DROP		
	NUMBER				
VESSELS, MOTOR	2	-	-	-	-
GROSS TONNAGE	106	-	-	-	-
BOATS, MOTOR	14	12	10	10	57
GEAR:					
NUMBER	37	12	150	13	60
HOOKS OR BAITS	7,700	-	-	-	-

ITEM	DREDGES		TONGS		HOOKS, SPONGE
	CLAM	SCALLOP, BAY	OYSTER	OTHER	
	NUMBER				
FISHERMEN:					
ON VESSELS	6	-	29	-	6
ON BOATS AND SHORE:					
REGULAR	-	76	603	-	18
CASUAL	-	5	41	1	9
TOTAL	6	81	673	1	33
VESSELS, MOTOR	2	-	15	-	1
GROSS TONNAGE	73	-	245	-	6
BOATS, MOTOR	-	59	513	1	27
GEAR:					
NUMBER	2	112	673	1	29
YARDS AT MOUTH	2	112	-	-	-

ITEM	DIVING OUTFITS, SPONGE	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER		
FISHERMEN:			
ON VESSELS	58	-	3,465
ON BOATS AND SHORE:			
REGULAR	-	28	2,204
CASUAL	-	6	1,264
TOTAL	58	34	6,933
VESSELS, MOTOR	9	-	1,209
GROSS TONNAGE	144	-	58,852
BOATS:			
MOTOR	-	34	2,599
OTHER	-	-	18
GEAR, NUMBER	9	-	-

FLORIDA, WEST COAST - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES			
			HERRING		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	178,800	7,119	-	-	-	-
AMBERJACK	500	48	-	-	-	-
ANGELFISH	2,500	128	-	-	-	-
BALLYHOO	5,600	893	-	-	40,100	5,546
BLUEFISH	295,000	26,154	-	-	-	-
BLUE RUNNER	1,060,100	47,019	-	-	81,300	3,251
BONITO	16,800	874	-	-	15,200	760
CABIO	100	10	-	-	-	-
CIGARFISH	241,700	36,916	-	-	17,200	2,075
CREVALLE	251,000	11,135	-	-	91,600	2,621
CROAKER	22,600	4,531	-	-	-	-
DRUM:						
BLACK	9,500	731	-	-	-	-
RED	134,700	21,942	-	-	-	-
FLOUNDERS	15,500	2,938	-	-	-	-
GRUNTS	3,200	472	-	-	-	-
HERRING, THREAD	174,000	5,733	83,800	2,512	262,100	7,862
KING WHITING OR "KINGFISH"	16,500	1,875	-	-	-	-
MACKEREL:						
KING	97,300	11,942	-	-	-	-
SPANISH	1,224,000	128,015	-	-	-	-
MENHADEN	93,100	3,096	-	-	1,100	44
MOJARRA	60,300	7,577	-	-	-	-
MULLET:						
BLACK (LISA)	4,543,700	400,176	-	-	-	-
SILVER	30,400	2,398	-	-	-	-
PERMIT	200	34	-	-	-	-
PIGFISH	1,300	80	-	-	-	-
POMPANO	9,700	8,058	-	-	-	-
SEA CATFISH	17,000	1,149	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	212,000	66,234	-	-	-	-
WHITE	26,000	2,827	-	-	-	-
SHEEPSHEAD, SALT-WATER	50,900	5,251	-	-	-	-
SNAPPER, MANGROVE	12,500	2,527	-	-	-	-
SPANISH SARDINES	322,100	16,886	-	-	98,500	4,661
SPOT	30,500	3,347	-	-	-	-
TENPOUNDER	496,300	16,144	-	-	127,300	3,819
TRIPLETAIL	100	7	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	214,700	20,348	-	-	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	56,100	1,432	-	-	-	-
CRABS, BLUE, HARD	15,800	1,291	-	-	-	-
TOTAL	9,942,100	867,337	83,800	2,512	734,400	30,639

SPECIES	LAMPARA NETS		OTTER TRAWLS, SHRIMP		POTS AND TRAPS	
					CRAB	
					BLUE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BALLYHOO	221,900	38,523	-	-	-	-
CABIO	-	-	4,000	296	-	-
CROAKER	-	-	495,500	52,862	-	-
FLOUNDERS	-	-	124,200	24,173	-	-
JEWFISH	-	-	1,000	66	-	-
KING WHITING OR "KINGFISH"	-	-	211,400	12,046	-	-
PIGFISH	-	-	3,700	231	-	-
SEA CATFISH	-	-	14,800	964	-	-
SEA TROUT OR WEAKFISH, WHITE	-	-	103,600	7,512	-	-
SHEEPSHEAD, SALT-WATER	-	-	12,600	1,040	-	-
SPOT	-	-	46,700	3,163	-	-
TRIPLETAIL	-	-	300	27	-	-
UNCLASSIFIED, FOR FOOD	-	-	15,300	795	-	-
CRABS, BLUE:						
HARD	-	-	100,500	7,674	14,670,000	1,066,942
SOFT AND PEELER	-	-	-	-	300	173
LOBSTER, SPINY	-	-	69,400	34,416	-	-
SHRIMP, SALT-WATER	-	-	26,563,600	13,107,843	-	-
SQUID	-	-	34,300	4,680	1,600	325
TOTAL	221,900	38,523	27,800,900	13,257,788	14,671,900	1,067,440

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POTS AND TRAPS - CONTINUED					
	CRAB - CONTINUED		FISH		LOBSTER, SPINY	
	OTHER					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
GROUPERS	-	-	-	-	49,000	9,482
GRUNTS	-	-	22,600	3,278	-	-
SEA BASS	-	-	128,900	14,871	-	-
CRABS, STONE	1,457,800	744,033	-	-	44,300	25,601
LOBSTER, SPINY	-	-	-	-	6,774,000	4,048,908
TOTAL	1,457,800	744,033	151,500	18,149	6,867,300	4,083,991

SPECIES	GILL NETS					
	ANCHOR, SET, OR STAKE		DRIFT		RUNAROUND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	64,200	2,564
ANGELFISH	-	-	-	-	2,300	132
BLUEFISH	-	-	-	-	275,900	27,921
BLUE RUNNER	-	-	-	-	186,500	8,637
BONITO	-	-	-	-	500	50
CABIO	-	-	-	-	15,000	1,112
CREVALLE	-	-	-	-	188,700	6,312
CROAKER	-	-	-	-	88,600	13,019
DRUM:						
BLACK	-	-	-	-	23,300	1,901
RED	-	-	-	-	382,000	63,290
FLOUNDERS	-	-	-	-	55,400	14,101
GRUNTS	-	-	-	-	40,900	5,839
KING WHITING OR "KINGFISH"	-	-	-	-	48,600	4,005
MACKEREL:						
KING	-	-	19,000	2,755	1,796,000	243,263
SPANISH	-	-	98,200	11,598	6,476,500	763,837
MENHADEN	-	-	-	-	510,400	18,637
MOJARRA	-	-	-	-	84,300	10,246
MULLET:						
BLACK (LISA)	-	-	-	-	16,148,600	1,415,106
SILVER	-	-	-	-	463,300	43,516
PERMIT	-	-	-	-	5,500	674
PIGFISH	-	-	-	-	19,300	1,568
POMPANO	-	-	22,800	25,317	164,400	181,936
SEA CATFISH	-	-	-	-	27,200	1,882
SEA TROUT OR WEAKFISH:						
SPOTTED	-	-	-	-	1,665,300	509,782
WHITE	-	-	-	-	65,300	7,218
SHARKS, UNCLASSIFIED	-	-	-	-	3,000	89
SHEEPSHEAD, SALT-WATER	-	-	-	-	109,400	11,608
SNAPPER, MANGROVE	-	-	-	-	74,100	14,096
SPOT	-	-	-	-	127,700	12,715
STURGEON, COMMON	6,900	808	10,600	1,279	-	-
TENPOUNDER	-	-	-	-	49,300	1,642
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	802,200	78,574
FOR BAIT, REDUCTION AND ANIMAL FOOD	-	-	-	-	162,400	6,924
SQUID	-	-	-	-	100	9
TURTLES:						
GREEN	381,000	82,976	-	-	29,500	7,586
LOGGERHEAD	-	-	-	-	22,200	2,623
TOTAL	387,900	83,784	150,600	40,949	30,177,900	3,482,414

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	7,600	304	-	-	-	-
AMBERJACK	-	-	19,300	1,581	-	-
ANGELFISH	400	20	900	39	-	-
BARRACUDA	-	-	600	19	-	-
BLUEFISH	42,100	4,332	27,500	2,732	9,900	1,044
BLUE RUNNER	24,700	1,091	25,900	1,647	-	-
BONITO	-	-	100	6	1,600	139
CABIO	-	-	30,700	2,910	9,800	983
CREVALLE	17,500	718	23,700	930	3,900	124
CROAKER	75,200	9,319	254,400	51,905	-	-

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	TRAMMEL NETS		LINES			
			HAND		TROLL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
DOLPHIN	-	-	-	-	62,600	6,833
DRUM:						
BLACK	7,600	581	9,100	743	-	-
RED	75,500	13,068	70,600	11,709	4,700	791
FLOUNDERS	30,600	8,778	6,600	1,185	-	-
GROUPERS	-	-	6,852,500	1,288,543	-	-
GRUNTS	-	-	248,200	34,118	-	-
HOGFISH	-	-	22,700	4,935	-	-
JEWFISH	-	-	129,400	9,764	-	-
KING WHITING OR "KINGFISH"	13,900	1,086	1,700	187	-	-
MACKEREL:						
KING	-	-	68,900	8,954	390,500	52,702
SPANISH	119,500	13,508	103,000	12,339	78,700	9,350
MENHADEN	12,300	443	-	-	-	-
MOJARRA	-	-	11,900	1,624	-	-
MULLET:						
BLACK (LISA)	2,443,400	223,378	-	-	-	-
SILVER	6,000	427	-	-	-	-
PERMIT	200	35	5,800	621	-	-
PIGFISH	6,500	540	3,700	231	-	-
POMPANO	652,500	746,325	2,200	2,308	-	-
SCUP OR PORGY	-	-	71,800	9,738	-	-
SEA BASS	-	-	20,100	2,661	-	-
SEA CATFISH	17,800	1,192	1,400	95	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	461,600	140,995	276,400	86,398	27,600	8,796
WHITE	47,500	4,381	13,600	1,623	500	60
SHARKS, UNCLASSIFIED	-	-	3,200	140	-	-
SHEEPSHEAD, SALT-WATER	19,200	1,864	71,400	7,148	-	-
SNAPPERS:						
LANE	-	-	13,600	3,338	-	-
MANGROVE	17,800	3,355	337,800	92,117	-	-
MUTTON	-	-	234,200	85,032	-	-
RED	-	-	3,864,200	2,121,924	-	-
VERMILION	-	-	117,600	46,278	-	-
YELLOWTAIL	-	-	986,900	383,859	-	-
SPOT	43,500	3,453	1,300	144	-	-
TENPOUNDER	9,300	281	1,700	66	-	-
TILEFISH	-	-	5,200	829	-	-
TRIGGERFISH	-	-	24,200	1,808	-	-
WARSAW	-	-	187,400	23,881	-	-
UNCLASSIFIED:						
FOR FOOD	83,200	8,046	174,000	12,124	-	-
FOR BAIT, REDUCTION, AND ANIMAL FOOD	19,500	699	2,800	126	-	-
TOTAL	4,254,900	1,188,219	14,328,200	4,318,359	589,800	80,822

SPECIES	LINES - CONTINUED		DIP NETS			
	LONG OR SET WITH HOOKS		COMMON		DROP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	20,800	5,578	-	-	-	-
SEA CATFISH	22,100	1,536	-	-	-	-
SWORDFISH	55,700	22,831	-	-	-	-
LOBSTER, SPINY	-	-	500	299	7,800	4,657
TOTAL	98,600	29,945	500	299	7,800	4,657

SPECIES	CAST NETS		SPEARS		DREDGES	
					CLAM	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS	-	-	57,900	16,992	-	-
MULLET:						
BLACK (LISA)	2,900	244	-	-	-	-
SILVER	1,500	162	-	-	-	-
CLAMS, SUNRAY VENUS	-	-	-	-	759,800	75,979
TOTAL	4,400	406	57,900	16,992	759,800	75,979

SPECIES	DREDGES - CONTINUED		TONGS			
	SCALLOP, BAY		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, HARD, PUBLIC	-	-	-	-	9,500	5,216

(CONTINUED ON NEXT PAGE)

FLORIDA, WEST COAST - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	DREDGES - CONTINUED		TONGS			
	SCALLOP, BAY		OYSTER		OTHER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	2,137,200	883,370	-	-
FALL	-	-	1,218,300	499,649	-	-
PRIVATE:						
SPRING	-	-	144,000	59,989	-	-
FALL	-	-	60,500	25,562	-	-
SCALLOPS, BAY	104,300	56,505	-	-	-	-
TOTAL	104,300	56,505	3,560,000	1,468,570	9,500	5,216

SPECIES	HOOKS, SPONGE		DIVING OUTFITS, SPONGE		BY HAND, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET, PUBLIC:						
SPRING	-	-	-	-	9,100	4,082
FALL	-	-	-	-	4,700	2,108
SPONGES:						
GRASS	600	827	-	-	-	-
SHEEPSWOOL	4,600	28,517	23,900	218,677	-	-
YELLOW	3,100	4,522	-	-	-	-
TOTAL	8,300	33,866	23,900	218,677	13,800	6,190

ALABAMA

OPERATING UNITS BY GEAR, 1970

ITEM	OTTER TRAWLS, SHRIMP	FYKE AND HOOP NETS, FISH	POTS AND TRAPS		GILL NETS, RUNAROUND	TRAMMEL NETS
			CRAB	FISH		
	NUMBER					
FISHERMEN:						
ON VESSELS	1,143	-	-	-	-	-
ON BOATS AND SHORE:						
REGULAR	174	2	94	2	14	100
CASUAL	77	1	-	1	4	-
TOTAL	1,394	3	94	3	18	100
VESSELS, MOTOR	448	-	-	-	-	-
GROSS TONNAGE	24,904	-	-	-	-	-
BOATS:						
MOTOR	149	3	88	3	14	71
OTHER	-	-	-	-	8	47
GEAR:						
NUMBER	922	120	14,100	75	18	100
SQUARE YARDS	-	-	-	-	10,800	99,400
YARDS AT MOUTH	15,528	-	-	-	-	-

ITEM	LINES		SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	HAND	LONG OR SET WITH HOOKS				
	NUMBER					
FISHERMEN:						
ON VESSELS	78	13	-	13	-	1,240
ON BOATS AND SHORE:						
REGULAR	8	-	19	-	379	519
CASUAL	30	-	39	-	157	283
TOTAL	116	13	58	13	536	2,042
VESSELS, MOTOR	11	2	-	3	-	461
GROSS TONNAGE	667	258	-	59	-	25,615
BOATS:						
MOTOR	38	-	58	-	283	609
OTHER	-	-	-	-	33	84
GEAR:						
NUMBER	114	2	58	6	536	-
YARDS AT MOUTH	-	-	-	7	-	-
HOOKS OR BAITS	760	2,300	-	-	-	-

ALABAMA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	OTTER TRAWLS, SHRIMP		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CRAB	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	5,400	370	-	-	-	-
BUFFALOFISH	-	-	3,800	375	-	-
CABIO	13,000	747	-	-	-	-
CROAKER	5,604,700	719,942	-	-	-	-
DRUM:						
BLACK	20,900	1,128	-	-	-	-
RED	32,800	3,231	-	-	-	-
FLOUNDERS	738,500	121,542	-	-	-	-
GROUPERS	10,800	952	-	-	-	-
JEWFISH	7,500	440	-	-	-	-
KING WHITING OR "KINGFISH"	564,900	32,454	-	-	-	-
MACKEREL, SPANISH	25,100	1,777	-	-	-	-
MULLET, BLACK (LISA)	800	37	-	-	-	-
PADDLEFISH	-	-	2,100	318	-	-
POMPANO	1,900	774	-	-	-	-
SEA CATFISH	101,500	5,190	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	2,700	705	-	-	-	-
WHITE	743,500	42,907	-	-	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	2,500	374	-	-
SALT-WATER	173,100	8,333	-	-	-	-
SNAPPER, RED	228,600	51,706	-	-	-	-
SPOT	28,400	1,696	-	-	-	-
CRABS, BLUE, HARD	2,200	158	-	-	1,405,100	143,930
SHRIMP, SALT-WATER	15,031,000	8,040,037	-	-	-	-
SQUID	7,700	617	-	-	-	-
TOTAL	23,345,000	9,034,743	8,400	1,067	1,405,100	143,930

SPECIES	POTS AND TRAPS - CONTINUED		GILL NETS, RUNAROUND		TRAMMEL NETS	
	FISH					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	16,100	1,285	400	32
BLUE RUNNER	-	-	100	5	-	-
CATFISH AND BULLHEADS	10,600	3,615	-	-	-	-
CROAKER	-	-	-	-	26,900	4,331
DRUM:						
BLACK	-	-	-	-	3,100	188
RED	-	-	-	-	2,400	357
FLOUNDERS	-	-	-	-	700	193
MACKEREL, SPANISH	-	-	34,800	3,796	1,200	116
MULLET, BLACK (LISA)	-	-	1,700	97	3,109,000	191,671
POMPANO	-	-	200	44	-	-
SEA CATFISH	-	-	4,400	222	14,400	694
SEA TROUT OR WEAKFISH:						
SPOTTED	-	-	300	79	76,900	23,834
WHITE	-	-	-	-	7,100	372
SHEEPSHEAD, SALT-WATER	-	-	500	16	8,300	507
SPOT	-	-	-	-	15,200	1,089
TOTAL	10,600	3,615	58,100	5,544	3,265,600	223,384

SPECIES	LINES				SPEARS	
	HAND		LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CROAKER	59,200	14,787	-	-	-	-
FLOUNDERS	-	-	-	-	41,500	13,654
GROUPERS	254,700	31,954	-	-	-	-
JEWFISH	65,800	7,206	-	-	-	-
MACKEREL, SPANISH	64,800	20,682	-	-	-	-
SEA TROUT OR WEAKFISH,						
SPOTTED	4,600	1,492	-	-	-	-
SNAPPER, RED	754,600	274,563	-	-	-	-
SWORDFISH	-	-	3,000	2,480	-	-
TOTAL	1,203,700	350,684	3,000	2,480	41,500	13,654

SPECIES	DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET:				
PUBLIC:				
SPRING	-	-	122,800	62,743
FALL	-	-	122,800	76,054
PRIVATE:				
SPRING	3,900	2,470	26,700	14,364
FALL	1,600	907	1,600	962
TOTAL	5,500	3,377	273,900	154,123

MISSISSIPPI
OPERATING UNITS BY GEAR, 1970

ITEM	PURSE SEINES, MENHADEN	OTTER TRAWLS		POTS AND TRAPS	
		FISH	SHRIMP	CRAB	LOBSTER, SPINY
	-NUMBER-				
FISHERMEN:					
ON VESSELS	295	93	1,127	-	21
ON BOATS AND SHORES:					
REGULAR	-	-	200	33	-
CASUAL	-	-	495	38	-
TOTAL	295	93	1,822	71	21
VESSELS, MOTOR	17	31	452	-	4
GROSS TONNAGE	5,197	3,407	19,965	-	261
BOATS, MOTOR	33	-	600	58	-
GEAR:					
NUMBER	17	58	1,311	4,600	900
LENGTH, YARDS	8,550	-	-	-	-
YARDS AT MOUTH	-	1,287	18,143	-	-

ITEM	GILL NETS		TRAMMEL NETS	LINES	
	ANCHOR, SET, OR STAKE	RUNAROUND		HAND	LONG OR SET WITH HOOKS
	-NUMBER-				
FISHERMEN:					
ON VESSELS	9	-	23	175	24
ON BOATS AND SHORE:					
REGULAR	-	6	21	-	-
CASUAL	-	-	16	-	-
TOTAL	9	6	60	175	24
VESSELS, MOTOR	2	-	6	19	5
GROSS TONNAGE	70	-	141	1,298	420
BOATS:					
MOTOR	-	4	42	-	-
OTHER	-	-	1	-	-
GEAR:					
NUMBER	2	4	36	156	5
SQUARE YARDS	9,000	4,400	18,650	-	-
HOOKS OR BAITS	-	-	-	1,615	6,450

ITEM	LINES - CONTINUED	DREDGES, OYSTER, COMMON	TONGS, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	TROT WITH BAITS			
	-NUMBER-			
FISHERMEN:				
ON VESSELS	-	268	-	1,839
ON BOATS AND SHORE:				
REGULAR	2	54	242	386
CASUAL	-	14	230	623
TOTAL	2	336	472	2,848
VESSELS, MOTOR	-	81	-	536
GROSS TONNAGE	-	1,853	-	29,762
BOATS:				
MOTOR	2	26	468	996
OTHER	-	-	-	1
GEAR:				
NUMBER	2	214	470	-
YARDS AT MOUTH	-	259	-	-
HOOKS OR BAITS	1,200	-	-	-

MISSISSIPPI - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES, MENHADEN		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CROAKER	-	-	32,600	3,180	69,000	8,381
DRUM:						
BLACK	-	-	3,300	165	23,200	1,160
RED	-	-	11,400	753	8,800	771
FLOUNDERS	-	-	19,800	2,813	132,700	17,460
GROUPERS	-	-	-	-	1,200	104
KING WHITING OR "KINGFISH"	-	-	33,300	2,355	235,700	15,368
MACKEREL, SPANISH	-	-	-	-	1,200	81
MENHADEN	205,980,000	3,887,760	-	-	-	-
SEA CATFISH	-	-	27,200	1,357	16,700	845
SEA TROUT OR WEAKFISH, WHITE	-	-	24,000	1,744	60,900	3,422
SHEEPSHEAD, SALT-WATER	-	-	8,200	434	33,100	1,728
SNAPPER, RED	-	-	5,900	849	28,500	6,644
SPOT	-	-	-	-	700	37
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	3,300	165
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	74,742,100	1,459,592	-	-
CRABS, BLUE, HARD	-	-	-	-	7,500	750
SHRIMP	-	-	-	-	9,604,000	3,810,532
TOTAL	205,980,000	3,887,760	74,907,800	1,473,242	10,226,500	3,867,448

SPECIES	POTS AND TRAPS				GILL NETS	
	CRAB		LOBSTER, SPINY		ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	-	-	3,500	390
CROAKER	-	-	-	-	47,000	8,800
DRUM:						
BLACK	-	-	-	-	4,900	350
RED	-	-	-	-	3,300	495
MACKEREL, SPANISH	-	-	-	-	41,000	4,920
MULLET, BLACK (LISA)	-	-	-	-	1,000	70
SEA TROUT:						
SPOTTED	-	-	-	-	21,000	5,700
WHITE	-	-	-	-	1,400	198
SHEEPSHEAD, SALT-WATER	-	-	-	-	2,100	198
CRABS, BLUE, HARD	2,006,400	191,118	-	-	-	-
LOBSTER, SPINY	-	-	212,700	119,370	-	-
TOTAL	2,006,400	191,118	212,700	119,370	125,200	21,121

SPECIES	GILL NETS - CONTINUED		TRAMMEL NETS		LINES	
	RUNAROUND				HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	900	73	17,600	1,800
CROAKER	-	-	1,200	170	182,300	36,358
DRUM:						
BLACK	1,400	84	19,800	1,217	-	-
RED	3,200	438	43,600	6,421	-	-
GROUPERS	-	-	-	-	264,400	39,123
KING WHITING	-	-	400	24	-	-
MACKEREL, SPANISH	-	-	600	60	-	-
MULLET, BLACK (LISA)	7,000	350	153,900	8,736	-	-
SEA TROUT:						
SPOTTED	67,900	16,517	165,900	41,030	-	-
WHITE	-	-	500	75	18,500	2,775
SHEEPSHEAD, SALT-WATER	1,900	152	23,800	1,924	-	-
SNAPPER, RED	-	-	-	-	2,484,600	922,151
SPOT	-	-	1,800	119	-	-
TOTAL	81,400	17,541	412,400	59,849	2,967,400	1,002,207

(CONTINUED ON NEXT PAGE)

MISSISSIPPI - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES - CONTINUED			
	LONG OR SET HOOKS		TROT WITH BAIT	
	POUNDS	DOLLARS	POUNDS	DOLLARS
SWORDFISH	286,500	223,056	-	-
CRABS, BLUE, HARD	-	-	13,500	1,230
TOTAL.	286,500	223,056	13,500	1,230

SPECIES	DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTER MARKET:				
PUBLIC:				
SPRING.	308,200	129,424	18,800	8,527
FALL.	110,500	53,666	21,200	10,238
PRIVATE, SPRING	88,800	35,676	-	-
TOTAL.	507,500	218,766	40,000	18,765

GULF FISHERIES

LOUISIANA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	BUTTERFLY NETS, SHRIMP	OTTER TRAWLS		FYKE AND HOOP NETS, FISH
				FISH	SHRIMP	
			NUMBER			
FISHERMEN:						
ON VESSELS.	-	1,068	30	39	4,450	-
ON BOATS AND SHORE:						
REGULAR	40	-	726	2	2,791	217
CASUAL.	15	-	31	-	1,260	144
TOTAL	55	1,068	787	41	8,501	361
VESSELS, MOTOR.	-	63	15	16	1,693	-
GROSS TONNAGE	-	24,103	290	1,022	94,173	-
BOATS:						
MOTOR	32	126	415	1	3,250	361
OTHER	1	-	-	-	-	-
GEAR:						
NUMBER.	16	63	865	24	6,233	14,080
LENGTH, YARDS	3,780	35,240	-	-	-	-
YARDS AT MOUTH.	-	-	3,297	513	98,503	-

ITEM	POTS AND TRAPS			GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES
	CRAB	CRAWFISH	FISH			HAND
			NUMBER			
FISHERMEN:						
ON VESSELS.	-	-	-	3	3	22
ON BOATS AND SHORE:						
REGULAR	490	126	112	141	186	23
CASUAL.	67	112	17	209	29	56
TOTAL	557	238	129	353	218	101
VESSELS, MOTOR.	-	-	-	1	1	6
GROSS TONNAGE	-	-	-	18	19	358
BOATS:						
MOTOR	542	238	129	325	128	76
OTHER	-	-	-	5	27	-
GEAR:						
NUMBER.	75,760	21,400	2,076	434	114	100
SQUARE YARDS.	-	-	-	110,739	54,050	-
HOOKS OR BAITS.	-	-	-	-	-	273

ITEM	LINES - CONTINUED		DIP NETS		DREDGES, OYSTER, COMMON
	LONG OR SET WITH HOOKS	TROT WITH BAITS	COMMON	DROP	
			NUMBER		
FISHERMEN:					
ON VESSELS.	-	-	-	-	640
ON BOATS AND SHORE:					
REGULAR	505	308	6	58	333
CASUAL.	303	34	9	84	50
TOTAL	808	342	15	142	1,023
VESSELS, MOTOR.	-	-	-	-	233
GROSS TONNAGE	-	-	-	-	4,602
BOATS:					
MOTOR	807	342	6	142	212
OTHER	-	-	7	-	-
GEAR:					
NUMBER.	1,533	1,197	15	10,520	837
YARDS AT MOUTH.	-	-	-	-	1,001
HOOKS OR BAITS.	508,514	217;620	-	-	-

ITEM	TONGS, OYSTER	BRUSH TRAPS	GRABS, FROG	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
			NUMBER		
FISHERMEN:					
ON VESSELS.	-	-	-	-	6,100
ON BOATS AND SHORE:					
REGULAR	119	117	[illegible]0	[illegible]	3,[illegible]
CASUAL.	20	35	17	-	1,[illegible]
TOTAL	139	15[illegible]	37	[illegible]	1[illegible]
VESSELS, MOTOR.	-	-	-	-	1,[illegible]56
GROSS TONNAGE	-	-	-	-	1[illegible]
BOATS:					
MOTOR	95	15[illegible]	[illegible]	1[illegible]	[illegible]
OTHER	-	-	7	-	[illegible]
GEAR, NUMBER.	139	41,[illegible]30	[illegible]	-	-

LOUISIANA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		BUTTERFLY NETS, SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	29,000	3,944	-	-	-	-
CATFISH AND BULLHEADS	7,300	2,102	-	-	-	-
DRUM:						
BLACK	63,000	4,852	-	-	-	-
RED	81,200	13,160	-	-	-	-
FLOUNDERS	100	17	-	-	-	-
GARFISH	7,700	531	-	-	-	-
MACKEREL, SPANISH	2,100	163	-	-	-	-
MENHADEN	-	-	959,809,800	18,930,641	-	-
MULLET, BLACK (LISA)	1,400	65	-	-	-	-
SEA CATFISH	3,200	222	-	-	-	-
SEA TROUT OR WEAKFISH, SPOTTED	38,400	10,667	-	-	-	-
SHEEPSHEAD:						
FRESH-WATER	9,500	1,224	-	-	-	-
SALT-WATER	11,400	618	-	-	-	-
SPOT	800	38	-	-	-	-
TRIPLETAIL	300	21	-	-	-	-
SHRIMP, SALT-WATER	-	-	-	-	2,189,600	589,875
TOTAL	255,400	37,624	959,809,800	18,930,641	2,189,600	589,875

SPECIES	OTTER TRAWLS				FYKE AND HOOP NETS, FISH	
	FISH		SHRIMP			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUEFISH	-	-	100	5	-	-
BOWFIN	-	-	-	-	9,000	495
BUFFALOFISH	-	-	-	-	423,400	57,605
CABIO	-	-	13,700	807	-	-
CARP	-	-	-	-	32,000	1,153
CATFISH AND BULLHEADS	-	-	-	-	1,249,200	359,766
CROAKER	-	-	296,600	44,272	-	-
DRUM:						
BLACK	-	-	26,000	2,010	-	-
RED	-	-	13,300	2,159	-	-
FLOUNDERS	-	-	453,500	80,264	-	-
GARFISH	-	-	-	-	400	28
GROUPERS	-	-	4,500	293	-	-
JEWFISH	-	-	6,500	500	-	-
KING WHITING OR "KINGFISH"	-	-	396,600	21,630	-	-
MACKEREL, SPANISH	-	-	25,500	2,046	-	-
MULLET, BLACK (LISA)	-	-	5,300	255	-	-
PADDLEFISH	-	-	-	-	200	14
POMPANO	-	-	4,100	3,453	-	-
SAWFISH	-	-	1,500	149	-	-
SEA CATFISH	-	-	93,800	6,568	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	-	-	25,900	7,108	-	-
WHITE	-	-	30,100	2,351	-	-
SHARKS, UNCLASSIFIED	-	-	5,500	275	-	-
SHEEPSHEAD:						
FRESH-WATER	-	-	-	-	180,700	21,060
SALT-WATER	-	-	39,800	2,154	-	-
SNAPPER, RED	-	-	226,100	63,089	-	-
SPOT	-	-	33,900	1,826	-	-
TRIPLETAIL	-	-	10,300	637	-	-
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	26,068,800	391,797	-	-	2,900	69
CRABS, BLUE:						
HARD	-	-	1,181,000	107,473	-	-
SOFT AND PEELER	-	-	400	352	-	-
SHRIMP, SALT-WATER	-	-	88,749,300	34,022,056	-	-
SQUID	-	-	1,400	79	-	-
TERRAPIN	-	-	100	37	-	-
TURTLES, GREEN	-	-	1,700	385	-	-
TOTAL	26,068,800	391,797	91,646,500	34,372,233	1,897,800	440,190

SPECIES	POTS AND TRAPS					
	CRAB		CRAWFISH		FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS	-	-	-	-	350,800	101,040
CRABS, BLUE:						
HARD	5,727,500	517,142	-	-	-	-
SOFT AND PEELER	35,600	31,523	-	-	-	-
CRAWFISH, FRESH-WATER	-	-	1,246,300	371,397	-	-
TOTAL	5,763,100	548,665	1,246,300	371,397	350,800	101,040

(CONTINUED ON NEXT PAGE)

LOUISIANA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS		LINES	
					HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	280,400	38,142	-	-	-	-
CABIO	-	-	-	-	1,000	65
CARP	5,200	187	30,100	4,094	-	-
CATFISH AND BULLHEADS	442,400	127,694	126,300	36,373	-	-
CROAKER	3,200	481	69,600	10,226	-	-
DRUM:						
BLACK	10,800	838	326,500	24,330	3,300	260
RED	29,400	5,090	649,100	104,091	14,200	2,296
FLOUNDERS	1,200	205	22,100	3,717	3,300	551
GARFISH	447,800	34,401	29,800	1,959	-	-
GROUPERS	-	-	-	-	300	17
KING WHITING OR "KINGFISH"	-	-	10,500	571	400	19
MACKEREL, SPANISH	-	-	-	-	1,800	144
MULLET, BLACK (LISA)	-	-	31,400	1,544	-	-
PADDLEFISH	600	42	-	-	-	-
POMPANO	-	-	300	266	45,400	38,830
SEA CATFISH	5,100	352	6,900	477	1,500	104
SEA TROUT OR WEAKFISH:						
SPOTTED	500	139	705,100	194,287	15,800	4,410
WHITE	300	23	104,300	7,327	4,600	353
SHEEPSHEAD:						
FRESH-WATER	81,400	9,490	5,200	605	7,000	821
SALT-WATER	-	-	173,100	9,343	-	-
SNAPPER, RED	-	-	-	-	28,700	8,020
SPOT	-	-	4,000	207	-	-
TRIPLETAIL	-	-	-	-	400	26
UNCLASSIFIED, FOR BAIT, REDUCTION, AND ANIMAL FOOD	3,400	68	-	-	-	-
TURTLES, SNAPPER	-	-	-	-	13,500	3,641
TOTAL	1,311,700	217,152	2,294,300	399,417	141,200	59,557

SPECIES	LINES - CONTINUED				DIP NETS	
	LONG OR SET WITH HOOKS		TROT WITH BAITS		COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	9,900	1,300	-	-	-	-
CATFISH AND BULLHEADS	2,050,500	587,072	-	-	-	-
DRUM:						
BLACK	4,600	354	-	-	-	-
RED	2,000	324	-	-	-	-
FLOUNDERS	100	17	-	-	-	-
GARFISH	37,500	2,588	-	-	-	-
SEA CATFISH	10,700	739	-	-	-	-
SEA TROUT OR WEAKFISH:						
SPOTTED	600	167	-	-	-	-
WHITE	300	23	-	-	-	-
SHEEPSHEAD, FRESH-WATER	500	59	-	-	-	-
CRABS, BLUE:						
HARD	-	-	2,568,100	232,674	-	-
SOFT AND PEELER	-	-	4,800	4,273	5,400	4,784
TURTLES:						
BABY	-	-	-	-	100	1,116
SNAPPER	100	27	-	-	-	-
TOTAL	2,116,800	592,670	2,572,900	236,947	5,500	5,900

SPECIES	DIP NETS - CONTINUED		DREDGES, OYSTER, COMMON		TONGS, OYSTER	
	DROP					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE:						
HARD	777,600	70,757	-	-	-	-
SOFT AND PEELER	6,300	5,649	-	-	-	-
CRAWFISH, FRESH-WATER	105,100	31,141	-	-	-	-
OYSTERS, MARKET:						
PUBLIC:						
SPRING	-	-	495,600	187,846	17,300	6,557
FALL	-	-	134,900	71,459	5,200	2,738
PRIVATE:						
SPRING	-	-	5,507,700	2,073,810	139,100	52,225
FALL	-	-	2,231,600	1,182,721	75,700	40,128
TOTAL	889,000	107,547	8,369,800	3,515,836	237,300	101,648

(CONTINUED ON NEXT PAGE)

LOUISIANA - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	BRUSH TRAPS		GRABS, FROG		BY HAND, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS, BLUE, SOFT AND PEELER	37,100	32,911	-	-	-	-
SHRIMP, FRESH-WATER	9,100	1,675	-	-	-	-
OYSTERS, MARKET, PRIVATE:						
SPRING.	-	-	-	-	25,100	9,521
FALL.	-	-	-	-	6,700	3,561
FROGS	-	-	6,700	4,087	-	-
TOTAL	46,200	34,586	6,700	4,087	31,800	13,08[illegible]

TEXAS

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	PURSE SEINES, MENHADEN	OTTER TRAWLS, SHRIMP	POTS AND TRAPS, CRAB	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES
							HAND
	NUMBER						
FISHERMEN:							
ON VESSELS.	-	187	4,737	-	-	-	98
ON BOATS AND SHORE:							
REGULAR	48	-	512	90	18	89	-
CASUAL.	17	-	100	10	-	-	287
TOTAL	65	187	5,349	100	18	89	385
VESSELS, MOTOR.	-	11	1,723	-	-	-	23
GROSS TONNAGE	-	2,945	112,102	-	-	-	1,202
BOATS:							
MOTOR	20	22	420	100	18	70	159
OTHER	2	-	-	-	-	20	-
GEAR:							
NUMBER.	22	11	3,554	14,300	18	70	383
LENGTH, YARDS	8,100	5,345	-	-	-	-	-
SQUARE YARDS.	-	-	-	-	6,800	27,000	-
YARDS AT MOUTH.	-	-	61,382	-	-	-	-
HOOKS OR BAITS.	-	-	-	-	-	-	1,451

ITEM	LINES - CONTINUED		SPEARS	DREDGES, OYSTER, COMMON	TONGS, OYSTER	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS	TROT WITH BAITS					
	NUMBER						
FISHERMEN:							
ON VESSELS.	-	-	-	376	-	-	[illegible],183
ON BOATS AND SHORE:							
REGULAR	112	2	42	22[illegible]	32	1	3[illegible]
CASUAL.	24	-	25	20	1	-	393
TOTAL	136	2	[illegible]	[illegible]	33	1	[illegible],311
VESSELS, MOTOR.	-	-	-	16[illegible]	-	-	1,91[illegible]
GROSS TONNAGE	-	-	-	2,[illegible]04	-	-	116,[illegible]4
BOATS:							
MOTOR	136	2	4	140	32	1	[illegible]4
OTHER	-	-	-	-	-	-	22
GEAR:							
NUMBER.	136	2	[illegible]	30[illegible]	32	-	-
YARDS AT MOUTH.	-	-	-	30	-	-	-
HOOKS OR BAITS.	124,600	600	-	-	-	-	-

TEXAS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES, MENHADEN		OTTER TRAWLS, SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CROAKER	18,500	1,173	-	-	70,100	3,62[illegible]
DRUM:						
BLACK	66,200	6,430	-	-	36,800	3,[illegible]2
RED	120,600	26,009	-	-	6,000	1,28[illegible]
FLOUNDERS	100	20	-	-	254,700	4,[illegible]
GROUPERS.	-	-	-	-	9,000	54[illegible]
KING WHITING OR "KINGFISH".	-	-	-	-	62,600	[illegible]
MENHADEN.	-	-	43,059,600	902,722	-	-
MULLET, BLACK (LISA). . . .	1,200	141	-	-	9,000	402
POMPANO	700	346	-	-	-	-
SEA CATFISH	1,800	108	-	-	24,[illegible]	1,24[illegible]
SEA TROUT OR WEAKFISH:						
SPOTTED	235,000	51,632	-	-	4,000	[illegible]
WHITE	-	-	-	-	1,000	1[illegible]
SHEEPSHEAD, SALT-WATER. . .	32,200	2,741	-	-	[illegible]	[illegible]
SNAPPER, RED.	-	-	-	-	[illegible]	[illegible]
UNCLASSIFIED:						
FOR FOOD.	-	-	-	-	[illegible]	4,[illegible]
FOR BAIT, REDUCTION, AND ANIMAL FOOD.	-	-	-	-	20,000	[illegible]
CRABS, BLUE, HARD	-	-	-	-	266,[illegible]	20,460
SHRIMP, SALT-WATER.	-	-	-	-	88,[illegible]	48,613,510
SQUID	-	-	-	-	[illegible]	909
TOTAL	476,300	88,600	43,059,600	902,722	[illegible]	[illegible]

TEXAS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POTS AND TRAPS, CRAB		GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	24,000	3,360	-	-
CROAKER	-	-	1,000	72	9,400	530
DRUM:						
BLACK	-	-	33,000	2,970	165,000	16,744
RED	-	-	62,900	13,779	351,800	76,097
FLOUNDERS	-	-	-	-	9,000	1,988
GARFISH	-	-	30,000	1,200	-	-
MULLET, BLACK (LISA)	-	-	-	-	900	36
SEA CATFISH	-	-	-	-	5,500	290
SEA TROUT OR WEAKFISH, SPOTTED	-	-	29,900	6,496	381,800	83,063
SHEEPSHEAD, SALT-WATER	-	-	-	-	35,100	3,058
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	8,500	431
FOR BAIT, REDUCTION, AND ANIMAL FOOD	-	-	-	-	6,000	238
CRABS, BLUE, HARD	5,199,900	483,000	-	-	-	-
TOTAL	5,199,900	483,000	180,800	27,877	973,000	182,475

SPECIES	LINES					
	HAND		LONG OR SET WITH HOOKS		TROT WITH BAITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CABIO	18,500	2,014	-	-	-	-
CATFISH AND BULLHEADS	-	-	4,000	800	-	-
CROAKER	-	-	8,200	715	-	-
DRUM:						
BLACK	14,200	1,179	467,500	53,004	-	-
RED	36,700	7,831	1,008,200	224,904	-	-
FLOUNDERS	4,600	1,006	9,400	2,454	-	-
GROUPERS	50,300	4,774	-	-	-	-
POMPANO	300	126	700	291	-	-
SEA CATFISH	600	68	300	34	-	-
SEA TROUT OR WEAKFISH, SPOTTED	29,800	6,206	476,300	108,213	-	-
SHEEPSHEAD, SALT-WATER	-	-	12,400	839	-	-
SNAPPER, RED	776,700	330,234	-	-	-	-
UNCLASSIFIED, FOR FOOD	-	-	1,000	48	-	-
CRABS, BLUE, HARD	-	-	-	-	59,000	5,310
TOTAL	931,700	353,438	1,988,000	391,302	59,000	5,310

SPECIES	SPEARS		DREDGES, OYSTER, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS	19,400	4,985	-	-
OYSTERS, MARKET:				
PUBLIC:				
SPRING	-	-	2,689,300	1,102,891
FALL	-	-	1,805,600	842,247
PRIVATE:				
SPRING	-	-	50,300	26,250
FALL	-	-	108,600	60,037
TOTAL	19,400	4,985	4,653,800	2,031,425

SPECIES	TONGS, OYSTER		BY HAND, OYSTER	
	POUNDS	DOLLARS	POUNDS	DOLLARS
OYSTERS, MARKET,				
PUBLIC:				
SPRING	17,800	7,447	-	-
FALL	3,000	1,832	100	45
TOTAL	20,800	9,279	100	45

GULF FISHERIES

GULF SHRIMP FISHERY

SUMMARY OF GULF SHRIMP LANDINGS, 1970

SIZE	BROWN		PINK	
	POUNDS	DOLLARS	POUNDS	DOLLARS
UNDER 15	1,704,262	2,321,853	60,200	81,941
15 - 20	9,468,164	11,253,836	689,460	864,282
21 - 25	10,859,793	11,590,023	1,566,376	1,806,671
26 - 30	8,303,096	7,798,405	2,048,291	2,189,748
31 - 40	15,972,972	12,343,105	4,121,437	3,843,734
41 - 50	6,207,255	3,861,495	2,465,485	1,780,993
51 - 67	9,551,914	4,385,357	3,729,646	2,043,565
68 AND OVER	18,403,017	5,697,011	1,591,861	573,787
PIECES	463,839	161,851	2,243	829
TOTAL	80,934,312	59,412,936	16,274,999	13,185,550

SIZE	WHITE		SEA BOBS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
UNDER 15	969,537	1,312,962	-	-
15 - 20	5,929,703	7,279,381	-	-
21 - 25	7,528,996	8,110,261	-	-
26 - 30	5,656,478	5,229,263	-	-
31 - 40	7,110,309	5,515,211	-	-
41 - 50	3,716,230	2,323,363	-	-
51 - 67	5,139,492	2,527,472	-	-
68 AND OVER	9,880,022	2,947,380	2,132,663	298,517
PIECES	31,711	10,841	-	-
TOTAL	45,962,478	35,256,134	2,132,663	298,517

SIZE	ROYAL RED		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS
UNDER 15	-	-	2,733,999	3,716,756
15 - 20	1,185	1,466	16,088,512	19,398,965
21 - 25	685	776	19,955,850	21,507,731
26 - 30	5,896	5,993	16,013,761	15,223,409
31 - 40	23,321	17,908	27,228,039	21,719,958
41 - 50	3,160	1,960	12,392,130	7,967,811
51 - 67	5,754	2,363	18,426,806	8,958,757
68 AND OVER	916	250	32,008,479	9,516,945
PIECES	-	-	497,793	173,521
TOTAL	40,917	30,716	145,345,369	108,183,853

NOTE:--ALL WEIGHTS ARE ON A HEADS-OFF BASIS. LANDINGS FIGURES REPRESENT THE HEADS-OFF WEIGHT AND, THEREFORE, ARE NOT DIRECTLY COMPARABLE WITH THE HEADS-ON (LIVE WEIGHT) QUANTITIES PUBLISHED IN THE GENERAL REVIEW AND REGIONAL TABLES. POUNDS OF HEADS-OFF SHRIMP MAY BE CONVERTED TO HEADS-ON (ROUND) WEIGHT BY MULTIPLYING BROWN SHRIMP WEIGHT BY 1.61; PINK, BY 1.60; WHITE, BY 1.54; SEA BOBS, BY 1.53; AND ROYAL RED, BY 1.80.

GULF SHRIMP LANDINGS BY SPECIES AND SIZE, 1970

SPECIES AND SIZE	FLORIDA, WEST COAST		ALABAMA		MISSISSIPPI	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BROWN:						
UNDER 15	-	-	83,549	111,263	2,358	3,109
15 - 20	124,770	148,922	750,366	927,426	120,502	148,515
21 - 25	129,352	138,278	1,080,356	1,179,221	130,547	139,467
26 - 30	118,815	113,569	914,168	873,120	293,462	265,689
31 - 40	169,889	136,654	1,071,266	825,362	701,853	522,152
41 - 50	148,230	102,659	634,673	394,727	400,896	247,690
51 - 67	125,359	72,028	1,113,035	542,471	1,313,827	649,469
68 AND OVER	40,369	18,563	1,060,578	412,440	1,832,226	739,342
PIECES	-	-	2,026	615	-	-
TOTAL	856,784	730,673	6,710,017	5,266,645	4,795,671	2,715,433
PINK:						
UNDER 15	4,147	5,563	1,330	1,794	-	-
15 - 20	482,019	601,392	37,640	48,535	6,320	8,076
21 - 25	1,331,951	1,527,841	29,026	34,241	18,840	22,099
26 - 30	1,826,469	1,941,641	32,192	34,400	29,558	31,590
31 - 40	3,541,047	3,281,242	31,419	28,976	19,339	17,213
41 - 50	2,248,591	1,594,814	27,773	21,013	10,449	7,462
51 - 67	3,544,023	1,906,673	17,865	11,728	2,158	1,842
68 AND OVER	1,549,438	552,270	24,295	13,665	730	547
TOTAL	14,527,685	11,411,436	201,540	194,352	87,394	88,829
WHITE:						
UNDER 15	2,134	2,858	76,894	101,285	1,896	2,568
15 - 20	159,509	199,341	738,459	928,750	205,953	252,740
21 - 25	185,500	198,310	687,679	737,497	246,380	257,178
26 - 30	167,332	158,878	455,935	421,728	251,269	230,266
31 - 40	214,538	172,768	337,681	254,895	143,578	116,583
41 - 50	106,824	68,742	113,456	72,458	74,089	49,981
51 - 67	133,013	65,396	73,862	40,554	68,460	39,965
68 AND OVER	250,058	76,939	51,637	21,746	136,217	53,493
PIECES	-	-	430	127	-	-
TOTAL	1,218,908	943,232	2,536,033	2,579,040	1,127,842	1,002,774
SEA BOBS, UNDER 15	4,109	696	-	-	-	-
ROYAL RED:						
21 - 25	60	65	-	-	-	-
26 - 30	2,095	1,990	-	-	3,041	3,224
31 - 40	21,088	16,197	-	-	-	-
41 - 50	2,130	1,299	-	-	250	200
51 - 67	5,137	2,035	-	-	122	72
68 AND OVER	810	220	-	-	-	-
TOTAL	31,320	21,806	-	-	3,413	3,496
GRAND TOTAL	16,638,806	13,107,843	9,447,590	8,040,037	6,014,320	3,810,532

SPECIES AND SIZE	LOUISIANA		TEXAS		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BROWN:						
UNDER 15	694,885	940,666	923,470	1,266,815	1,704,262	2,321,853
15 - 20	1,034,638	1,278,263	7,437,888	8,750,710	9,468,164	11,253,836
21 - 25	1,308,604	1,477,737	8,210,934	8,655,320	10,859,793	11,590,023
26 - 30	1,023,409	1,025,732	5,953,242	5,520,295	8,303,096	7,798,405
31 - 40	2,367,846	1,882,459	11,662,118	8,976,478	15,972,972	12,343,105
41 - 50	1,419,718	889,783	3,603,738	2,226,636	6,207,255	3,861,495
51 - 67	4,885,084	2,056,681	2,114,609	1,064,708	9,551,914	4,385,357
68 AND OVER	14,218,212	4,204,000	1,251,632	322,666	18,403,017	5,697,011
PIECES	23,247	7,811	438,566	153,425	463,839	161 851
TOTAL	26,975,643	13,763,132	41,596,197	36,937,053	80,934,312	59,412,936
PINK:						
UNDER 15	-	-	54,723	74,584	60,200	81,941
15 - 20	1,285	1,645	162,196	204,634	689,460	864,282
21 - 25	2,240	2,643	184,319	219,847	1,566,376	1,806,671
26 - 30	2,405	2,596	157,667	179,521	2,048,291	2,189,748
31 - 40	3,295	2,792	526,337	513,511	4,121,437	3,843,734
41 - 50	2,490	1,663	176,182	156,041	2,465,485	1,780,993
51 - 67	610	375	164,990	122,947	3,729,646	2,043,565
68 AND OVER	17,333	7,272	65	33	1,591,861	573,787
PIECES	-	-	2,243	829	2,243	829
TOTAL	29,658	18,986	1,428,722	1,471,947	16,274,999	13,185,550
WHITE:						
UNDER 15	630,109	877,023	258,504	329,228	969,537	1,312,962
15 - 20	2,900,347	3,663,027	1,925,435	2,235,523	5,929,703	7,279,381
21 - 25	3,602,672	4,008,044	2,806,765	2,909,232	7,528,996	8,110,261
26 - 30	3,162,420	2,977,025	1,619,522	1,441,366	5,656,478	5,229,263

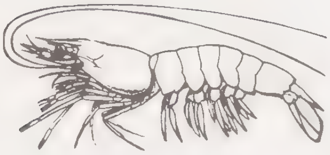
SEE NOTE ON PAGE

(CONTINUED ON NEXT PAGE)

GULF SHRIMP LANDINGS BY SPECIES AND SIZE, 1970 - Continued

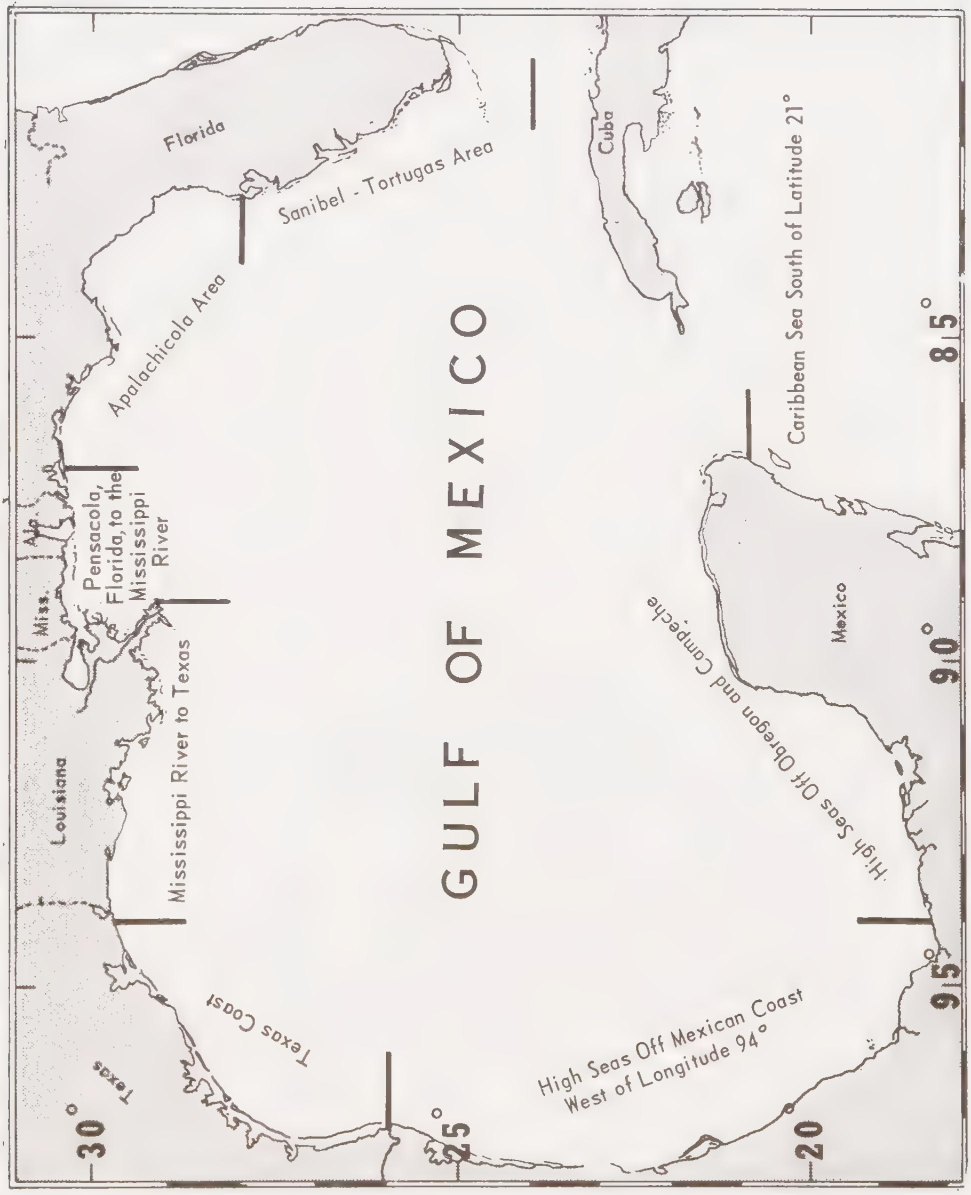
SPECIES AND SIZE	LOUISIANA		TEXAS		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
WHITE - CONTINUED:						
31 - 40	4,192,773	3,303,331	2,221,739	1,667,634	7,110,309	5,515,211
41 - 50	2,389,514	1,510,430	1,032,347	621,752	3,716,230	2,323,363
51 - 67	3,348,665	1,692,855	1,515,492	688,702	5,139,492	2,527,472
68 AND OVER	8,445,238	2,486,301	996,872	308,901	9,880,022	2,947,380
PIECES	26,521	8,833	4,760	1,881	31,711	10,841
TOTAL	28,698,259	20,526,869	12,381,436	10,204,219	45,962,478	35,256,134
SEA BOBS, UNDER 15	2,1[illegible]7,000	[illegible]97,65[illegible]	[illegible],494	64	[illegible]	[illegible]
ROYAL RED:						
15 - 20	1,185	1,466	-	-	1,185	1,466
21 - 25	625	711	-	-	685	776
26 - 30	760	779	-	-	5,896	5,993
31 - 40	2,068	1,584	165	127	23,321	17,908
41 - 50	780	461	-	-	3,160	1,960
51 - 67	495	256	-	-	5,754	2,363
68 AND OVER	106	30	-	-	916	250
TOTAL	6,019	5,287	165	127	40,917	30,716
GRAND TOTAL	57,836,639	34,611,931	55,408,014	48,613,510	145,345,369	108,183,853

SEE NOTE ON PAGE 237.



SHRIMP

MAJOR SHRIMP CATCH STATISTICAL AREAS, GULF OF MEXICO


Florida
Sanibel - Tortugas Area
Cuba
Caribbean Sea South of Latitude 21°
Apalachicola Area
GULF OF MEXICO
Pensacola, Florida, to the Mississippi River
Ala.
Miss.
Louisiana
Mississippi River to Texas
Mexico
High Seas Off Obregon and Campeche
Texas Coast
Texas
High Seas Off Mexican Coast West of Longitude 94°
30°
25°
20°
85°
90°
95°

GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1970

MAJOR WATER AREA, DEPTH, AND SPECIES		TRIPS	SIZE (HEADS-OFF PER POUND)								TOTAL
			UNDER 15	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 67	68 & OVER 1/	
		NUMBER	POUNDS								
SANIBEL AND TORTUGAS											
0 - 5 FATHOMS:	PINK		-	-	-	-	-	1,105	-	-	1,105
6 - 20 FATHOMS:	PINK		2,849	287,738	1,020,673	1,038,870	2,095,517	1,934,439	3,333,583	1,360,290	11,073,959
21 - 25 FATHOMS:	P. BRASIL.		-	-	-	5,620	-	-	-	-	5,620
21 -250 FATHOMS:	PINK		-	83,669	84,301	21,345	79,150	38,194	2,524	2,544	311,727
	ROYAL RED		-	-	60	2,095	18,088	2,130	5,137	760	28,270
TOTAL		6,757.1	2,849	371,407	1,105,034	1,067,930	2,192,755	1,975,868	3,341,244	1,363,594	11,420,681
APALACHICOLA AREA											
0 - 5 FATHOMS:	BROWN		-	44	573	13,710	88,662	107,327	76,390	22,164	308,870
	PINK		-	323	1,917	5,027	43,031	57,061	123,715	151,206	382,280
	WHITE		1,719	78,299	106,728	123,021	171,533	98,990	124,601	249,614	954,505
	SEA BOBS		4,109	-	-	-	-	-	-	-	4,109
6 - 15 FATHOMS:	WHITE		637	6,235	1,573	3,856	1,928	253	2,522	145	17,149
6 - 20 FATHOMS:	BROWN		-	-	-	2,467	4,602	2,100	2,969	265	12,403
	PINK		1,850	66,509	61,056	140,405	222,538	160,631	79,011	72,291	804,291
21 -220 FATHOMS:	ROYAL RED		-	-	-	30	900	-	-	-	930
TOTAL		7,204.7	8,315	151,410	171,847	288,516	533,194	426,362	409,208	495,685	2,484,537
PENSACOLA TO MISSISSIPPI RIVER											
0 - 5 FATHOMS:	BROWN		-	330	3,150	102,111	325,709	323,970	2,240,082	2,860,172	5,855,524
	PINK		-	1,487	2,553	5,376	2,320	6,385	5,367	1,288	24,776
	WHITE		5,700	240,743	418,338	689,554	557,191	337,378	382,630	345,224	2,976,758
	SEA BOBS		1,177	-	-	-	-	-	-	-	1,177
6 - 20 FATHOMS:	BROWN		3,369	94,074	194,599	426,023	1,096,325	875,580	1,276,448	820,119	4,786,537
	PINK		1,113	30,808	36,666	48,620	29,748	15,683	7,918	1,371	171,927
	WHITE		60,248	525,724	539,403	388,474	304,676	100,988	76,848	54,354	2,050,715
21 - 30 FATHOMS:	PINK		-	-	1,770	2,679	-	-	-	-	4,449
21 - 40 FATHOMS:	WHITE		1,142	16,160	9,297	789	2,056	692	56	-	30,192
21 - 45 FATHOMS:	BROWN		41,491	494,572	793,925	577,741	494,458	101,223	30,218	8,003	2,541,631
21 -270 FATHOMS:	ROYAL RED		-	-	-	3,351	2,650	250	122	-	6,373
TOTAL		31,922.8	114,240	1,403,898	1,999,701	2,244,718	2,815,133	1,762,149	4,019,689	4,090,531	18,450,059
MISSISSIPPI RIVER TO TEXAS											
0 - 5 FATHOMS:	BROWN		260	1,700	3,623	10,902	57,361	106,640	2,804,198	13,017,144	16,001,828
	WHITE		40,999	531,573	1,121,312	1,651,169	2,264,528	1,393,394	2,472,538	7,979,037	17,454,550
	SEA BOBS		1,953,987	-	-	-	-	-	-	-	1,953,987
6 - 10 FATHOMS:	SEA BOBS		173,390	-	-	-	-	-	-	-	173,390
6 - 20 FATHOMS:	BROWN		120,255	373,084	551,603	606,794	1,619,652	989,389	950,317	425,375	5,636,469
	PINK		60	1,274	940	433	2,257	765	365	-	6,094
	WHITE		577,285	2,721,211	2,584,838	1,236,045	1,639,664	769,571	593,261	491,275	10,613,150
21 - 40 FATHOMS:	WHITE		14,608	56,945	43,272	23,018	25,175	5,667	1,264	437	170,386
21 - 50 FATHOMS:	BROWN		656,412	2,425,805	1,870,232	1,016,908	1,107,813	244,035	118,560	29,480	7,469,245
21 -105 FATHOMS:	ROYAL RED		-	1,185	625	420	1,683	780	495	106	5,294
TOTAL		147,032.5	3,537,256	6,112,777	6,176,445	4,545,689	6,718,133	3,510,241	6,940,998	21,942,854	59,484,393
TEXAS COAST											
0 - 5 FATHOMS:	BROWN		5	190	470	1,440	5,224	10,912	201,370	1,178,149	1,397,760
	WHITE		56,951	345,455	776,420	936,054	1,584,545	776,775	1,340,568	720,259	6,537,027
6 - 20 FATHOMS:	BROWN		168,868	1,837,151	3,372,009	4,076,444	7,768,293	2,200,547	1,241,783	233,183	20,898,278
	PINK		320	1,143	3,674	8,308	17,207	4,135	3,773	655	39,215
	WHITE		183,785	1,348,442	1,899,102	596,210	547,641	228,613	141,518	70,985	5,016,296
21 - 30 FATHOMS:	PINK		65	500	2,363	1,033	2,255	695	440	-	7,351
21 - 35 FATHOMS:	WHITE		403	4,516	9,423	510	1,956	500	265	103	17,676
21 - 60 FATHOMS:	BROWN		331,225	3,161,093	3,164,521	980,002	1,843,760	600,145	250,857	142,770	10,474,373
TOTAL		56,539.5	741,622	6,698,490	9,227,982	6,600,001	11,770,881	3,822,322	3,180,574	2,346,104	44,387,976

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED)

GULF COAST SHRIMP CATCH BY AREA, DEPTH, AND SIZE, 1970 - Continued

MAJOR WATER AREA, DEPTH, AND SPECIES	TRIPS	SIZE (HEADS-OFF PER POUND)								TOTAL
		UNDER 15	15 - 20	21 - 25	26 - 30	31 - 40	41 - 50	51 - 67	68 & OVER 1/	
	NUMBER					POUNDS				
HIGH SEAS OFF MEXICAN COAST WEST OF 94^{0} LONGITUDE										
0 - 5 FATHOMS: WHITE		195	520	225	130	55	60	45	-	1,230
6 - 20 FATHOMS: BROWN		23,045	143,759	189,788	101,766	382,129	272,663	194,815	35,527	1,343,492
PINK		-	-	-	-	2,150	-	-	-	2,150
WHITE		7,125	20,465	11,097	3,608	6,614	2,685	2,825	740	55,159
21 - 30 FATHOMS: WHITE		485	520	525	275	1,165	200	95	-	3,265
21 - 40 FATHOMS: PINK		1,377	1,480	1,180	3,806	1,944	916	815	378	11,896
21 - 45 FATHOMS: BROWN		311,398	837,548	648,135	337,722	1,062,321	338,740	144,803	94,240	3,774,907
TOTAL	1,908.1	343,625	1,004,292	850,950	447,307	1,456,378	615,264	343,398	130,885	5,192,099
HIGH SEAS OFF OBREGON AND CAMPECHE										
6 - 20 FATHOMS: BROWN		3,441	10,740	9,981	12,495	17,811	11,653	8,700	-	74,821
PINK		13,749	89,281	160,901	188,350	471,363	116,846	123,997	325	1,164,812
WHITE .		15,395	26,523	3,766	397	440	85	140	-	46,746
P. BRASIL.		80	2,258	18,912	100,721	258,905	36,424	6,510	1,246	425,056
21 - 30 FATHOMS: P. BRASIL.		465	7,314	74,437	393,439	754,210	47,586	11,945	1,566	1,290,962
21 - 35 FATHOMS: PINK		38,763	116,161	93,581	81,577	127,976	43,637	29,303	944	531,942
WHITE		2,860	5,795	1,005	40	-	-	-	-	9,700
21 - 40 FATHOMS: BROWN		43,568	85,889	55,754	36,231	97,592	22,121	10,254	265	351,674
21 - 200 FATHOMS: ROYAL RED		-	-	-	-	-	-	-	50	50
TOTAL	820.8	118,321	343,961	418,337	813,250	1,728,297	278,352	190,849	4,396	3,895,763
CARIBBEAN SEA SOUTH OF 21^{0} NORTH LATITUDE										
6 - 10 FATHOMS: WHITE		-	-	95	50	135	180	220	-	680
ATLANTIC OCEAN										
0 - 5 FATHOMS: WHITE		-	70	100	136	937	187	79	-	1,509
6 - 15 FATHOMS: WHITE		-	507	4,444	3,142	67	12	17	-	8,189
TOTAL	23.5	-	577	4,544	3,278	1,004	199	96	-	9,698
GRAND TOTAL	252,209.0.	4,866,228	16,086,812	19,954,935	16,010,739	27,215,910	12,390,937	18,426,276	30,374,049	145,325,886

1/ INCLUDES PIECES.

NOTE.--THESE DATA REPRESENT THE CATCH OF VESSELS COMPLETING TRIPS DURING THE YEAR, REGARDLESS OF WHEN LANDINGS OCCURRED. CONSEQUENTLY, THE DATA ARE NOT DIRECTLY COMPARABLE WITH THOSE PRESENTED IN THE TABLE WHICH REPRESENT LANDINGS. A SINGLE TRIP IS SHOWN FOR EACH VOYAGE. ADDITIONAL TABULATIONS CONCERNING THE GULF OF MEXICO CATCH OF SHRIMP IN MORE DETAIL BY AREA, DEPTH, SIZE, AND FISHING EFFORT MAY BE OBTAINED UPON REQUEST FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL MARINE FISHERIES SERVICE, STATISTICS AND MARKET NEWS DIVISION, 3300 WHITEHAVEN STREET N.W., WASHINGTON, D.C. 20235.

SOUTH ATLANTIC AND GULF COAST SHRIMP LANDINGS, 1970

SPECIES AND SIZE	SOUTH ATLANTIC		GULF		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BROWN:						
UNDER 15.	-	-	1,704,262	2,321,853	1,704,262	2,321,853
15 - 20	236,363	272,900	9,468,164	11,253,836	9,704,527	11,526,736
21 - 25	666,313	725,086	10,859,793	11,590,023	11,526,106	12,315,109
26 - 30	1,246,645	1,210,095	8,303,096	7,798,405	9,549,741	9,008,500
31 - 40	1,515,354	1,189,571	15,972,972	12,343,105	17,488,326	13,532,676
41 - 50	495,604	332,829	6,207,255	3,861,495	6,702,859	4,194,324
51 - 67	222,869	120,213	9,551,914	4,385,357	9,774,783	4,505,570
68 AND OVER	47,364	20,960	18,403,017	5,697,011	18,450,381	5,717,971
PIECES.	-	-	463,839	161,851	463,839	161,851
TOTAL	4,430,512	3,871,654	80,934,31[illegible]	59,41[illegible],976	85,364,8[illegible]	[illegible]
PINK:						
UNDER 15.	-	-	60,200	81,941	60,200	81,941
15 - 20	1,567	1,869	689,460	864,282	691,027	866,151
21 - 25	6,781	7,323	1,566,376	1,806,671	1,573,157	1,813,994
26 - 30	62,096	57,478	2,048,291	2,189,748	2,110,387	2,247,226
31 - 40	155,575	133,093	4,121,437	3,843,734	4,277,012	3,976,827
41 - 50	249,356	164,039	2,465,485	1,780,993	2,714,841	1,945,032
51 - 67	62,490	33,714	3,729,646	2,043,565	3,792,136	2,077,279
68 AND OVER	-	-	1,591,861	573,787	1,591,861	573,787
PIECES.	-	-	2,243	829	2,243	829
TOTAL	537,865	397,516	16,274,999	13,185,550	16,812,864	13,583,066
WHITE:						
UNDER 15.	-	-	969,537	1,312,962	969,537	1,312,962
15 - 20	79,314	97,344	5,929,703	7,279,381	6,009,017	7,376,725
21 - 25	1,885,859	2,066,553	7,528,996	8,110,261	9,414,855	10,176,814
26 - 30	1,867,021	1,817,021	5,656,478	5,229,263	7,523,499	7,046,284
31 - 40	2,389,544	1,972,115	7,110,309	5,515,211	9,499,853	7,487,326
41 - 50	1,133,882	740,242	3,716,230	2,323,363	4,850,112	3,063,605
51 - 67	590,182	303,557	5,139,492	2,527,472	5,729,674	2,831,029
68 AND OVER	165,319	57,728	9,880,022	2,947,380	10,045,341	3,005,108
PIECES.	-	-	31,711	10,841	31,711	10,841
TOTAL	8,111,121	7,054,560	45,962,478	35,256,134	54,073,599	42,310,694
SEA BOBS, UNDER 15.	-	-	2,132,663	298,517	2,132,663	298,517
ROYAL RED:						
15 - 21	-	-	1,185	1,466	1,185	1,466
21 - 25	32,044	36,293	685	776	32,729	37,069
26 - 30	100	72	5,896	5,993	5,996	6,065
31 - 40	5,205	4,471	23,321	17,908	28,526	22,379
41 - 50	29,021	20,599	3,160	1,960	32,181	22,559
51 - 67	1,953	1,524	5,754	2,363	7,707	3,887
68 AND OVER	-	-	916	250	916	250
TOTAL	68,323	62,959	40,917	30,716	109,240	93,675
GRAND TOTAL	13,[illegible]47,8[illegible]1	11,386,669	145,[illegible]45,369	108,1[illegible],853	1[illegible],49[illegible],190	1[illegible],570,[illegible]42

NOTE:--ALL WEIGHTS ARE ON HEADS-OFF BASIS. THE SIZE INDICATES THE NUMBER OF HEADS-OFF SHRIMP TO THE POUND. TO CONVERT TO HEADS-ON WEIGHT MULTIPLY BY 1.61 FOR BROWN, 1.60 FOR PINK, 1.54 FOR WHITE, 1.53 FOR SEA BOBS, AND 1.80 FOR ROYAL RED. THE STATES LISTED REPRESENT THE STATES WHERE THE SHRIMP WERE LANDED REGARDLESS OF WHERE CAUGHT. THE NAMES OF THE SPECIES USED IN THESE TABLES ARE AS FOLLOWS: WHITE SHRIMP (MOSTLY PENAEUS SETIFERUS), BROWN SHRIMP (MOSTLY PENAEUS AZTECUS), PINK SHRIMP (MOSTLY PENAEUS DUORARUM), SEA BOBS (MOSTLY XIPHOPENAEUS KROYERI), AND ROYAL RED (MOSTLY HYMENOPENAEUS ROBUSTUS). THE VALUE REPORTED IS THE AMOUNT RECEIVED BY THE OWNERS OR OPERATORS OF THE VESSELS FOR THE FIRST SALE AT THE DOCK. ANY EXPENSES INVOLVED IN HANDLING OR PROCESSING ASHORE ARE NOT INCLUDED, EVEN THOUGH CHARGEABLE TO THE VESSEL. THE SIZE REPORTED GENERALLY IS THAT USED AS OF THE FIRST SALE. SIZE GRADING IN VARYING DEGREES OF UNIFORMITY MAY OR MAY NOT OCCUR AT, OR PRIOR TO, THE TIME FIRST SALES ARE MADE. IF GRADING IS NOT DONE AT THIS TIME, THE SIZE REPORTED IS AN AVERAGE SIZE AND MAY INCLUDE SEVERAL SIZE CLASSIFICATIONS.

SECTION 7 - PACIFIC COAST FISHERIES

The commercial fisheries of the Pacific Coast States (Alaska, Washington, Oregon, and California) yielded landings of 1.5 billion pounds worth $235.0 million--a gain of 283.8 million pounds (24 percent) and $57.6 million (32 percent) compared with 1969. Landings of anchovies, salmon, tuna, Dungeness crabs, and shrimp increased sharply, and landings of halibut and snow crabs had smaller gains. Landings of bonito, sea herring, jack and Pacific mackerel, king crabs, and sea scallops declined compared with 1969. Prices were generally higher than in 1969.

The Pacific Coast States had 30 percent of the volume and 38 percent of the value of U.S. landings, and exceeded all other areas in value. California with landings of 702.7 million pounds had 47 percent of the quantity of the Pacific Coast production, followed by Alaska with 545.3 million pounds (37 percent). Alaska with $96.1 million had 41 percent of the value of the Pacific Coast landings, followed by California ($86.4 million) with 37 percent. Washington and Oregon supplied the remaining 231.7 million pounds worth $52.5 million.

Fishermen and vessels. The Pacific Coast States had 42,142 fishermen using 5,446 vessels (5 net tons or more) and 15,969 motor boats--a gain of 2,115 fishermen and 302 vessels, but a decline of 1,455 motor boats compared with 1969.

Processed products. The value of processed seafood items was $579.7 million--an increase of $134.1 million compared with 1969. California led with products valued at $299.8 million, followed by Alaska with $185.9 million; Oregon, $47.8 million; and Washington, $46.2 million. There were 15,606 persons employed in 510 wholesaling and processing plants in the four States.

Salmon. Landings of 410.1 million pounds worth a record $98.7 million were 142.3 million pounds (53 percent) and $35.8 million (57 percent) more than in 1969. The harvest was the largest since 1949. A sharp increase in red salmon landings in Alaska and near-record silver salmon landings in Washington and Oregon were the principal reasons for the greater production.

Alaska landings were 346.5 million pounds worth $68.0 million--a gain of 127.3 million pounds and $25.5 million compared with 1969. Alaska accounted for 84 percent of the total salmon landings and 69 percent of the total value. Biologists had predicted a run of 50 to 60 million Bristol Bay red (sockeye) salmon, and the actual run was about 47 million fish. The pink salmon run also fell somewhat short of expectations. Despite the smaller than anticipated runs, red salmon landings in Alaska were 150.8 million pounds--79.1 million more than in 1969, and the best production since 1938. Bristol Bay fishermen caught more red salmon than the processing plants could handle at the Bay. As a result, an airlift was devised to fly the extra salmon to processing plants in Anchorage and other Alaska cities. Fishermen took their salmon 20 miles upriver where the fish were iced and packed into plastic-lined containers, and then trucked to aircraft waiting nearby. Airplanes flew about 20,000 air miles carrying an estimated 1.5 million pounds of sockeye salmon. Landings of all other salmon species in Alaska increased significantly compared with 1969; pink salmon, 117.7 million pounds (up 11 percent); chum, 54.5 million (up 140 percent); silver, 11.9 million (up 48 percent); and chinook salmon, 11.5 million pounds (up 7 percent).

Compared with 1969, salmon landings in Washington (37.6 million pounds) increased 18 percent, and in Oregon (19.4 million), 84 percent. Sharply increased silver salmon landings in both States accounted largely for the gain. The silver salmon production in Washington was 17.4

million pounds--144 percent more than in 1969; in Oregon, it was 13.1 million pounds--an increase of 165 percent. Biologists attributed abundance of the fish to the excellent results achieved by intensive hatchery programs carried out in both States. A cooperative effort by industry, State, and Federal agencies has improved the water quality of Oregon's Willamette River--a stream once too polluted to sustain fish life. The installation of modern fishways at the industrial complex at Willamette Falls will further aid salmon migrations. In 1970, scientists observed the salmon migrations by means of a television camera and video tapes--a method developed by NMFS engineers. They reported that the spawning run of silver and fall chinook salmon had exceeded all recent migrations.

California landings of chinook and silver salmon were 6.6 million pounds worth $5.1 million--a gain of 7 percent in volume and 33 percent in value compared with 1969.

The total pack of canned salmon was 3,822,200 standard cases worth a record $138.7 million--an increase of 1,271,300 cases and $48.4 million compared with 1969. It was the largest pack since 1966. Most of the gain was in Alaska where the pack of 1,705,500 cases of red salmon was nearly 1 million cases more than in 1969. The pack of pink salmon in Alaska (1,328,500 cases) also increased sharply compared with the previous year. Alaska accounted for 93 percent of the canned pack of salmon and 90 percent of its value.

Tuna. Landings of 378.4 million pounds worth $71.5 million were 63.3 million pounds and $19.2 million more than in 1969. The harvest was second only to the record 389.9 million pounds taken in 1950. A marked increase in landings of skipjack tuna (up 67 percent) and slighter increases in albacore (up 17 percent) and yellowfin tuna (up 15 percent) accounted largely for the gain. Bluefin tuna landings declined sharply compared with 1969.

Albacore landings of 56.1 million pounds were 8.0 million more than in 1969. The harvest was the third largest on record--exceeded only by the 72.5 million pounds taken in 1950 and the 60.8 million taken in 1963. Most of the albacore remained in northern California waters from July to early November. The resulting California production of 29.9 million pounds was twice that of the previous year. The albacore runs in the Pacific Northwest were rather erratic, and fishing was often hampered by strong northwesterly winds and rough seas. Few fish were taken in August (usually the best month), but exceptionally good fishing in September partly compensated for the disappointing August production. In Washington, albacore landings of 4.4 million pounds increased 829,000 pounds; but in Oregon, landings of 21.8 million declined 8.0 million pounds compared with 1969. The average price per pound increased from 22 cents in 1969 to nearly 27 cents in 1970.

Bluefin tuna landings of 8.7 million pounds worth $1.6 million declined 43 percent in volume and 34 percent in value compared with 1969. It was the smallest production since 1952. The average price per pound was 18 cents--almost 3 cents more than in 1969. In early July, fishermen made fair catches of bluefin tuna off the coast of Baja California. The fishery developed quickly in all areas, and by early August fishermen had taken a substantial part of the total bluefin harvest. Beginning in late August, two U.S. vessels based in Puerto Rico fished for bluefin tuna off the east coast of the United States. They returned to Puerto Rico in late September with about 1,500 tons of mixed bluefin and skipjack tuna.

Skipjack tuna landings of 76.9 million pounds worth $12.1 million were 30.9 million pounds and $6.0 million more than in 1969. The average price per pound was 16 cents--compared with 13 cents in 1969. The skipjack fishery was generally slow until June and July when most of the landings were made. Early in October, however, excellent catches of skipjack were taken off the coast of Baja California. Several vessels made trips of 11 to 20 days with almost full loads of skipjack tuna.

PACIFIC COAST FISHERIES

Record landings of 236.7 million pounds of yellowfin tuna were 31.1 million more than in 1969, the former record year. The value ($42.8 million) increased 29 percent compared with 1969. Fishermen received an average price of 18 cents per pound--compared with 16 cents in 1969.

In accordance with the recommendation of the Inter-American Tropical Tuna Commission, the 1970 quota of yellowfin tuna from the eastern tropical Pacific was held to 120,000 tons. The fishery opened January 1 and closed March 23, 1970. It was the fifth consecutive year that this fishery operated under a quota system designed to maintain the yellowfin population at the maximum sustainable yield.

After the quota was taken, a reported total of 25 U.S. flag vessels fished in eastern Atlantic waters off West Africa and another eight tuna seiners fished on an exploratory basis in the western Pacific Ocean.

Anchovies. Landings in California were a record 192.5 million pounds--an increase of 57.2 million (42 percent) compared with 1969, the former record year. The increased landings resulted from greater fishing effort, early season price agreement, and favorable market prices for anchovy meal.

It was the sixth consecutive year for the anchovy reduction fishery. As in previous years, the California Fish and Game Commission established separate catch quotas and a split fishing season for the two permit areas that are divided by Point Conception in Santa Barbara County. The 1970-71 season in the Northern Permit Area opened August 1, 1970, with a catch quota of 10,000 tons, and in the Southern Permit Area on September 15, 1970, with a catch quota of 100,000 tons. The early season was scheduled to close in both areas on January 3, 1971. When the early season ended, fishermen had taken nearly 50 percent of the total allowable catch quota of 110,000 tons.

Shrimp. Landings of a record 92.9 million pounds (heads-on) worth a record $5.5 million were 30.3 million pounds (49 percent) and $1.7 million (47 percent) more than in 1969, the former record year. Record landings in Alaska (74.3 million pounds), Oregon (13.6 million), and California (4.1 million pounds) contributed to the peak production. In Alaska, the shrimp fishery has trended sharply upward since 1959 when landings were 13.1 million pounds--at that time a record harvest. The spectacular growth of the fishery has centered in the Kodiak area which yielded about 85 percent of the State total in 1970. The industry has developed rapidly with the introduction of new shrimping vessels and the invention of new peeling machines for processing.

Dungeness crabs. Landings were a record 58.5 million pounds worth a record $12.1 million--a gain of 10.5 million pounds and $1.0 million compared with 1969. Contributing to the increase were record landings of 14.9 million pounds in Oregon, and substantial landings in Washington (18.5 million) and California (15.4 million pounds). However, the Alaska production of 9.7 million pounds declined slightly compared with 1969. For the first time since 1960, Dungeness crab landings were greater than king crab landings.

Early in the season, Dungeness crabs in Washington were small and had a poor yield; prices dropped sharply. The crabs in Oregon, however, were large, and prices were firm. The Oregon production was 53 percent greater than in 1969. The quantity of crab gear used increased markedly in both Washington and Oregon. In Washington, 39,500 pots were used--compared with 29,950 in 1969; and in Oregon, 48,050 pots were used--compared with 44,900 in 1969. The Dungeness crab fishery in Washington had 148 vessels--49 more than in 1969. The Oregon fleet had 161 vessels--14 more than in 1969.

In Alaska, air shipment of significant quantities of live Dungeness crabs was a new development in 1970. The ports of Kodiak and Homer, Alaska, supplied most of the shipments. As much as 3,000 pounds of live crabs were flown to Hawaii each week, and smaller quantities were flown to Oregon and Arizona. A major problem encountered, however, was the mortality of the crabs while enroute to the destination. In an effort to overcome this drawback to a promising new market, a continuing effort was underway to develop improved shipping containers and handling methods.

PACIFIC COAST FISHERIES

King crabs. Landings of 52.1 million pounds were worth $13.2 million--a decline of 5.7 million pounds (10 percent) and $2.5 million (16 percent) compared with 1969. The harvest was the smallest since 1961. In an effort to conserve the declining resource, the Alaska Board of Fish and Game continued regulations begun in 1968 providing for a 6-month closure of certain fishing grounds. In addition, they established quotas in most fishing areas and limited the number of crab pots per vessel.

Fishermen lost no time because of price disputes. They agreed with plant owners on a price of 25-1/4 cents per pound before the season began at Kodiak on August 15. Competition for the supply of king crabs resulted in an increase to 30 cents per pound by the end of October, and to 36 cents per pound by the end of the year.

Five new king crab vessels entered the fishery early in 1970, but by the end of the year several vessel owners, disappointed by the declining king crab harvest, were planning to convert their vessels for use in other fisheries, such as the shrimp or sablefish pot fisheries.

Mackerel fishery. In California, the only Pacific Coast State with a mackerel fishery, the combined landings of Pacific and jack mackerel were 48.4 million pounds--a decrease of 5.9 million compared with 1969. The jack mackerel fishery (47.7 million pounds) declined for the third successive year, although the fish were fairly plentiful on the fishing grounds. Fishermen lost no time in price disputes or contract negotiations, but many of them preferred to fish for anchovies instead of jack mackerel.

Landings of Pacific mackerel (622,000 pounds) were 74 percent less than in 1969, and far below the record 146.4 million pounds taken in 1935. In an effort to conserve the dwindling Pacific mackerel resource, the California State Legislature approved legislation prohibiting commercial fishing for Pacific mackerel for 2 years. The law became effective in August 1970.

Halibut. Landings by the combined United States and Canadian halibut fleets were 54.9 million pounds (dressed weight)--6 percent less than in 1969. For the third consecutive year, Canadian fishermen landed more halibut (53 percent of the production) than United States fishermen.

U.S. Pacific halibut landings of 34.3 million pounds (round weight) worth $8.7 million increased 1.1 million pounds but declined $222,000 compared with 1969. Alaska landings of 28.3 million pounds were 24 percent more than in 1969. As halibut receipts increased at Kodiak and other Alaska ports, they declined to an alltime low at Seattle, Washington. Washington landings of 5.9 million pounds were 43 percent less than in 1969. The pattern of landings changed principally because Alaska firms began paying fishermen prices that competed with the higher prices traditionally offered at Seattle. Most fishermen preferred to deliver halibut to ports near the fishing areas, and to make additional fishing trips in the time formerly lost in the long run to Seattle. Halibut prices continued firm in 1970 until the end of the season when mounting frozen halibut inventories caused a sharp decline in exvessel prices. Pacific Coast fishermen received an average price of 25.4 cents per pound in 1970--1-1/2 cents less than in 1969.

Snow crabs. Landings of a record 14.5 million pounds were worth $1.4 million--an increase of 29 percent in quantity and 25 percent in value compared with 1969. The continuing decline in king crab landings has resulted in a growing interest in the snow crab resource. Snow crabs can be taken with the same gear and processed in the same facilities as king crabs. Also like king crabs, they are a quality seafood that can help satisfy the consumer desire for crab meat. In 1970, Alaska packers supplemented the shortage of king crab meat with a record pack (42,527 standard cases) of snow crab meat.

In 1970, the U.S. Food and Drug Administration ruled that "snow" has been the usual name used to designate crab meat produced from species of Chionoecetes, and that all canned products must be so labeled.

Bonito. The 9.2-million-pound production declined 8.0 million compared with 1969, and was the smallest harvest in 5 years. The bonito fishery fluctuates widely. It has ranged from a low of 128,000 pounds in 1956 to a peak 21.2 million pounds in 1967. Early in the year, vessel owners and southern California canneries agreed on the price of bonito. Fishermen got $140 per ton for 3- to 4-pound fish, and $165 per ton for fish over 4 pounds.

Sea scallops. Landings of 1.5 million pounds of meats worth $1.5 million declined 24 percent in volume and 4 percent in value compared with 1969. Alaska accounted for 99 percent of the quantity and value of the landings. Washington had the remaining 1 percent. Alaska had seven active scallop vessels--compared with 15 in 1969. The fishing effort centered in the Gulf of Alaska, and about 98 percent of the landings were made in the Kodiak area. Alaska fishermen received an average price per pound of $1.03--compared with 82 cents in 1969.

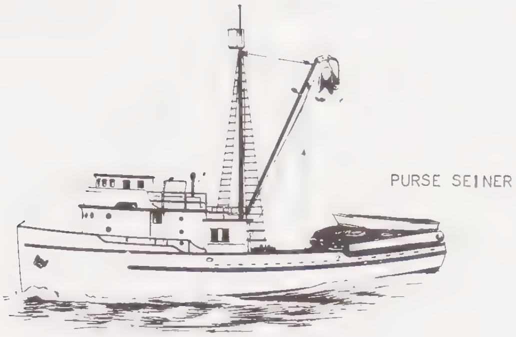
Clams. Landings of 872,000 pounds of clam meats were 209,000 pounds more than in 1969, and the best harvest since 1962. The gain resulted principally from Washington landings of 285,000 pounds of razor clams (up 169 percent) and 470,000 pounds of hard clams (up 6 percent). A fishery for geoduck clams developed in Washington. A survey made by divers for the State Department of Fisheries indicated that a substantial supply of several million pounds of geoducks was available in waters of Puget Sound where diving gear could be used. These large "king" clams with enormous necks can be reached by divers using underwater air or water jets. Three diving crews produced about 21,000 pounds of shucked geoducks worth $13,000. Most of the clams were steaked for restaurant use.

Pacific sardines. Landings of 442,000 pounds increased 337,000 pounds compared with 1969--but were far below the record 1.5 billion pounds taken in 1936. In an effort to conserve the Pacific sardine resource, the California Legislature enacted a law in 1967 providing for a 2-year moratorium on sardine fishing in California waters. In 1969, the moratorium was continued indefinitely, with the exception that sardines may be taken for bait under permits issued by the California Department of Fish and Game. The annual quota for bait is limited to 250 short tons, and when this quota has been reached, the permit holder is notified. Thereafter sardines cannot be taken except incidentally with catches of other fish, and may not exceed 15 percent by weight of a load. Sardines taken as incidental catch may be used only for canning or reduction, but not for bait.

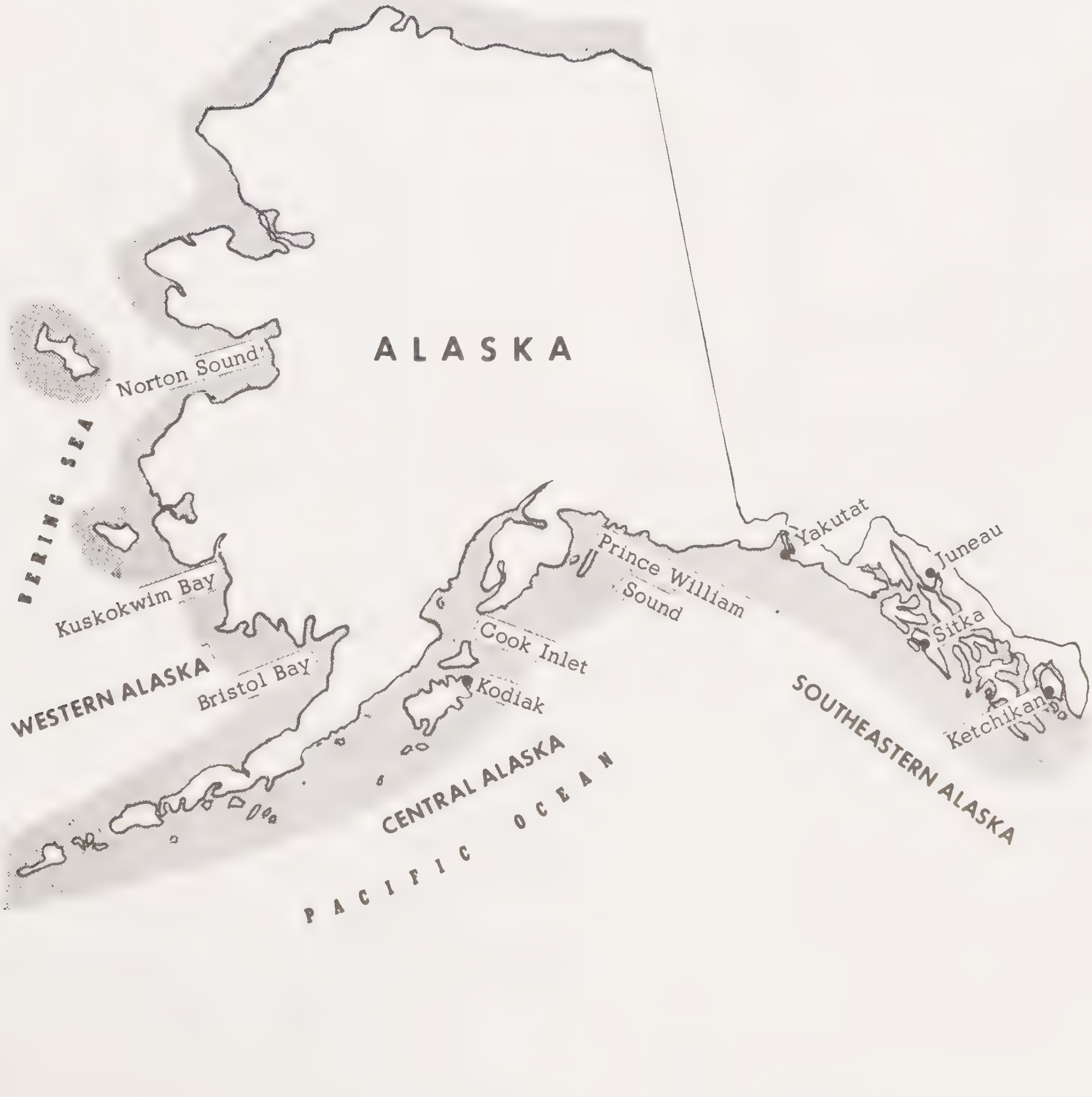
Other information. Additional data may be found in the California monthly landings bulletins published in the Current Fishery Statistics Series by the Statistics and Market News Division in cooperation with the State. Information on many aspects of the Pacific Coast Fisheries appear in daily, monthly, and annual reports published by the NMFS Fishery Market News Office in Terminal Island, California, and Seattle, Washington.

Acknowledgments. The following organizations helped collect the data appearing in this section: Alaska Department of Fish and Game, Washington Department of Fisheries, Oregon Fish Commission, and California Department of Fish and Game.

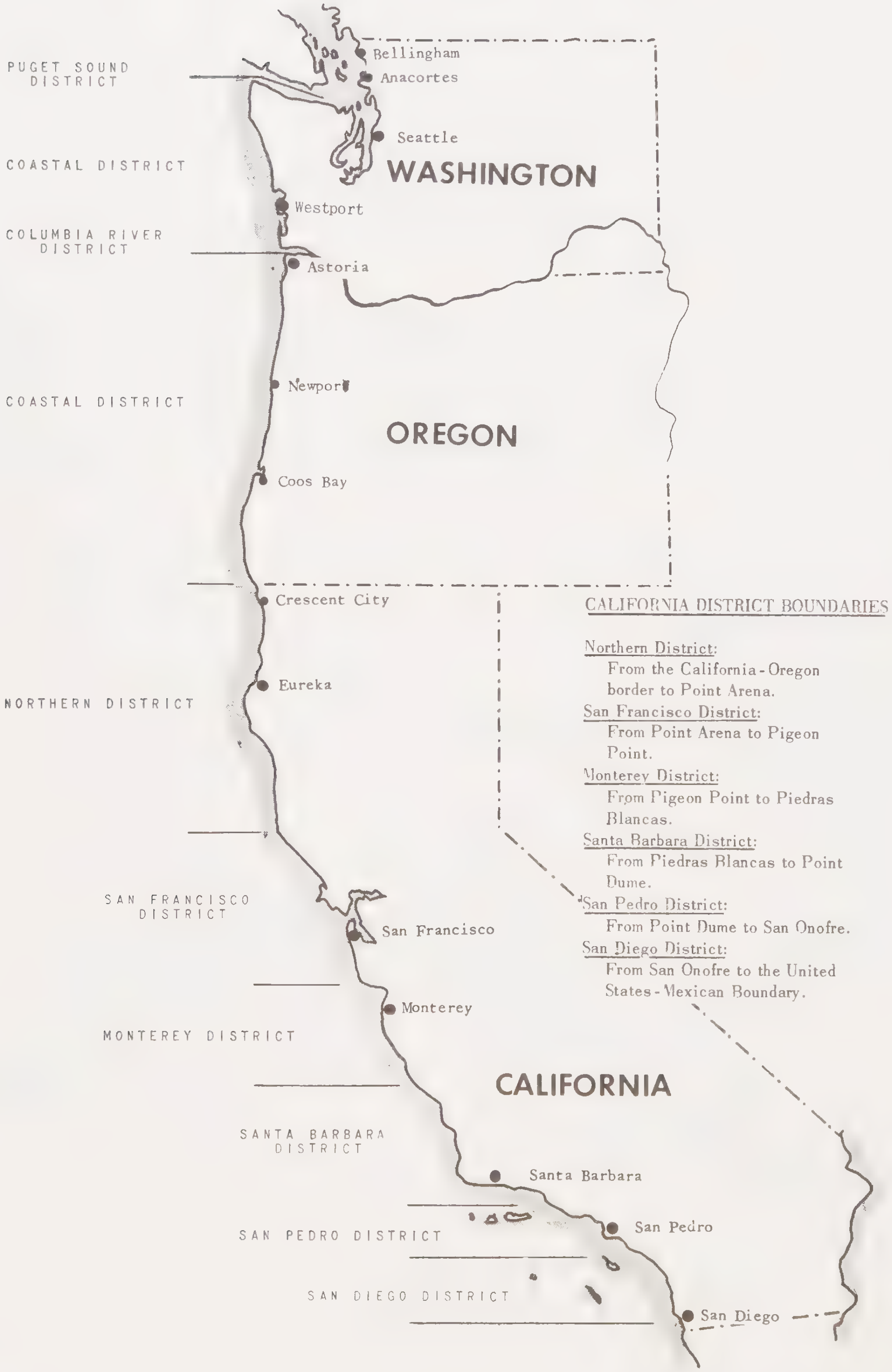
PACIFIC COAST FISHERIES


PURSE SEINER

PACIFIC COAST STATES


ALASKA
Norton Sound
BERING SEA
Kuskokwim Bay
WESTERN ALASKA
Bristol Bay
Cook Inlet
Kodiak
Prince William Sound
Yakutat
Juneau
Sitka
Ketchikan
CENTRAL ALASKA
SOUTHEASTERN ALASKA
PACIFIC OCEAN

PACIFIC COAST STATES - Continued


PUGET SOUND DISTRICT
Bellingham
Anacortes
Seattle
COASTAL DISTRICT
WASHINGTON
Westport
COLUMBIA RIVER DISTRICT
Astoria
COASTAL DISTRICT
Newport
OREGON
Coos Bay
Crescent City
Eureka
NORTHERN DISTRICT
SAN FRANCISCO DISTRICT
San Francisco
Monterey
MONTEREY DISTRICT
CALIFORNIA
SANTA BARBARA DISTRICT
Santa Barbara
SAN PEDRO DISTRICT
San Pedro
SAN DIEGO DISTRICT
San Diego

CALIFORNIA DISTRICT BOUNDARIES

Northern District:
From the California-Oregon border to Point Arena.

San Francisco District:
From Point Arena to Pigeon Point.

Monterey District:
From Pigeon Point to Piedras Blancas.

Santa Barbara District:
From Piedras Blancas to Point Dume.

San Pedro District:
From Point Dume to San Onofre.

San Diego District:
From San Onofre to the United States-Mexican Boundary.

PACIFIC COAST FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		WHALE PRODUCTS		TOTAL	
	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS	MILLION POUNDS	MILLION DOLLARS
ALASKA	393	75	152	21	-	-	545	96
WASHINGTON	107	23	27	7	-	-	134	30
OREGON	69	18	29	5	-	-	98	23
CALIFORNIA	654	79	47	8	2	(1)	703	86
TOTAL	1,223	195	255	40	2	(1)	1,480	235

1/ LESS THAN $500,000.

NOTE:--TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN:					
ON VESSELS	9,915	4,207	2,719	[illegible]	[illegible]
ON BOATS AND SHORE	9,614	5,342	1,934	[illegible]	[illegible]
TOTAL	19,529	9,549	4,653	[illegible]	[illegible]
VESSELS, MOTOR	2,583	1,499	1,123	[illegible]	[illegible]
GROSS TONNAGE	76,494	37,098	31,920	[illegible]	[illegible]
BOATS:					
MOTOR	8,800	3,708	1,655	[illegible]	[illegible]
OTHER	-	260	15	-	[illegible]
GEAR:					
HAUL SEINES	41	146	3	5	195
LENGTH, YARDS	12,300	13,125	300	2,000	27,725
PURSE SEINES AND LAMPARA NETS:					
ANCHOVY	-	-	-	33	33
LENGTH, YARDS	-	-	-	14,025	14,025
HERRING	52	7	-	-	59
LENGTH, YARDS	26,000	1,875	-	-	27,875
MACKEREL AND SARDINE	-	-	-	49	49
LENGTH, YARDS	-	-	-	24,696	24,696
SALMON	1,340	269	-	-	1,499
LENGTH, YARDS	508,712	144,855	-	-	594,767
SQUID	-	-	-	17	17
LENGTH, YARDS	-	-	-	6,919	6,919
TUNA	-	-	1	150	151
LENGTH, YARDS	-	-	1,200	120,750	121,950
OTHER	-	-	-	109	109
LENGTH, YARDS	-	-	-	41,283	41,283
BEAM TRAWLS:					
SHRIMP	11	5	-	-	16
YARDS AT MOUTH	121	24	-	-	145
OTHER	-	2	-	-	2
YARDS AT MOUTH	-	10	-	-	10
OTTER TRAWLS:					
FISH	16	86	54	154	298
YARDS AT MOUTH	240	1,882	1,230	4,158	7,234
SHRIMP	36	11	62	27	112
YARDS AT MOUTH	540	209	1,175	729	2,192
BRUSH WEIRS	-	1	-	-	1
POUND NETS	-	2	-	-	2
FLOATING TRAPS	4	-	-	-	4
POTS AND TRAPS:					
CRAB:					
DUNGENESS	14,110	39,500	48,050	39,390	130,080
KING	32,803	-	-	-	32,803
SNOW	20,646	-	-	-	20,646
CRAWFISH	-	1,600	1,500	360	3,460
FISH	-	60	-	198	258
LOBSTER, SPINY	-	-	-	12,000	12,000
OCTOPUS	-	200	-	78	278
SHRIMP	2,685	250	-	-	2,935
GILL NETS:					
ANCHOR, SET, OR STAKE:					
SALMON	2,362	365	65	-	2,792
SQUARE YARDS	1,532,466	115,000	26,000	-	1,673,466

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
			NUMBER		
GEAR - CONTINUED:					
GILL NETS - CONTINUED:					
ANCHOR, SET OR STAKE - CONTINUED:					
OTHER	-	-	129	-	129
SQUARE YARDS	-	-	32,000	-	32,000
DRIFT:					
BARRACUDA	-	-	-	32	32
SQUARE YARDS	-	-	-	10,800	10,800
SALMON	4,353	1,511	447	-	6,166
SQUARE YARDS	4,222,410	7,560,000	1,365,000	-	13,125,953
SEA BASS	-	-	43	116	159
SQUARE YARDS	-	-	86,000	39,150	125,150
OTHER	-	17	24	316	357
SQUARE YARDS	-	15,000	21,500	106,650	143,150
TRAMMEL NETS	-	-	-	8	8
SQUARE YARDS	-	-	-	40,160	40,160
LINES:					
HAND:					
ROCKFISHES	-	46	-	45	91
HOOKS	-	88	-	90	178
TUNA:					
ALBACORE	-	125	321	2,916	3,026
HOOKS	-	125	321	2,916	3,026
YELLOWFIN	-	-	-	585	585
HOOKS	-	-	-	585	585
OTHER	-	-	-	4,795	4,795
HOOKS	-	-	-	9,590	9,590
TROLL:					
ALBACORE	-	2,311	6,502	6,656	11,906
HOOKS	-	2,311	6,502	19,968	24,688
SALMON	8,484	9,464	7,576	9,220	32,096
HOOKS	50,520	39,153	33,306	46,100	155,545
OTHER	-	60	20	4,734	4,810
HOOKS	-	120	40	4,734	4,886
LONG OR SET WITH HOOKS	12,524	2,635	150	500	14,348
HOOKS	1,054,540	225,665	14,350	110,000	1,248,276
DIP, BRAIL, OR SCOOP NETS	-	189	15	75	279
REEF NETS	-	54	-	-	54
WHEELS	5	-	-	-	5
HARPOONS:					
SWORDFISH	-	-	-	91	91
WHALE	-	-	-	3	3
OTHER	-	-	-	3	3
DREDGES:					
CLAM	-	6	-	-	6
YARDS AT MOUTH	-	6	-	-	6
OYSTER:					
COMMON	-	56	4	7	67
YARDS AT MOUTH	-	112	8	7	127
SUCTION	-	2	-	-	2
SCALLOP, SEA	7	4	-	-	11
YARDS AT MOUTH	56	12	-	-	68
TONGS, OYSTER	-	-	-	36	36
SHOVELS	42	500	75	-	617
DIVING OUTFITS:					
ABALONE	-	3	-	597	600
OTHER	-	-	-	2	2

PACIFIC COAST FISHERIES

LANDINGS BY STATES, 1970

SPECIES	ALASKA		WASHINGTON		OREGON	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ANCHOVIES	-	-	443	14	-	-
ARCTIC CHAR	9	1	-	-	-	-
CARP	-	-	695	4	-	-
COD	203	20	2,705	175	76	5
DOLLY VARDEN TROUT	2	(2)	-	-	-	-
FLOUNDERS:						
"SOLE"	-	-	6,655	505	13,109	1,060
UNCLASSIFIED	38	2	415	22	736	30
HAKE	-	-	9,009	78	-	-
HALIBUT	28,336	6,946	5,875	1,733	138	36
HERRING, SEA	17,036	356	4,418	250	48	10
LAMPREY	-	-	-	-	4	1
LINGCOD	50	5	3,177	235	1,153	80
OCEAN PERCH	-	-	13,653	861	1,613	102
PERCH	-	-	244	30	5	(2)
PIKE OR PICKEREL	(2)	(2)	-	-	-	-
POLLOCK	-	-	427	5	-	-
RATFISH	-	-	640	5	-	-
ROCKFISHES	17	1	12,644	761	4,262	245
SABLEFISH	814	150	958	115	274	23
SALMON:						
CHINOOK OR KING	11,547	5,035	8,558	4,823	6,311	3,280
CHUM OR KETA	54,490	6,616	2,901	677	5	1
PINK	117,718	15,563	44	9	(2)	(2)
RED OR SOCKEYE	150,812	37,249	8,715	3,806	41	16
SILVER OR COHO	11,898	3,512	17,383	7,305	13,085	5,694
TOTAL SALMON	346,465	67,975	37,601	16,620	19,442	8,991
SCULPIN	25	3	-	-	-	-
SHAD	-	-	26	2	698	85
SHARKS:						
GRAYFISH	-	-	479	3	17	(2)
UNCLASSIFIED	-	-	17	(2)	-	-
TOTAL SHARKS	-	-	496	3	17	(2)
SHEEFISH	3	1	-	-	-	-
SKATES	-	-	208	2	96	3
SMELT:						
EULACHON	12	1	1,112	88	140	25
SURF OR SILVER	-	-	221	26	8	1
STEELHEAD TROUT	31	6	290	125	186	60
STRIPED BASS	-	-	-	-	50	8
STURGEON, COMMON	-	-	353	47	213	42
TOMCOD	-	-	139	1	22	1
TUNA:						
ALBACORE	-	-	4,390	1,196	21,798	5,956
SKIPJACK	-	-	(2)	(2)	409	65
YELLOWFIN	-	-	-	-	4,730	862
TOTAL TUNA	-	-	4,390	1,196	26,937	6,883
WHITEFISH	61	12	-	-	-	-
TOTAL FISH	393,102	75,479	106,794	22,903	69,227	17,691
SHELLFISH ET AL.						
CRABS:						
DUNGENESS	9,696	1,414	18,468	3,405	14,929	3,313
KING	52,061	13,190	-	-	-	-
SNOW	14,473	1,417	-	-	-	-
TOTAL CRABS	76,230	16,021	18,468	3,405	14,929	3,313
CRAWFISH, FRESH-WATER	-	-	31	11	39	12
SHRIMP:						
BAY	-	-	33	19	-	-
OCEAN	74,256	2,979	926	107	13,572	1,793
CLAMS:						
GEODUCK	-	-	21	13	-	-
HARD	-	-	470	224	-	-
HORSE	-	-	8	1	-	-
RAZOR	67	40	285	265	6	8
SOFT	-	-	9	12	-	-
MIXED	-	-	-	-	6	7
TOTAL CLAMS	67	40	793	515	12	15

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	ALASKA		WASHINGTON		OREGON	
SHELLFISH ET AL.-CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
OCTOPUS	-	-	18	3	3	(2)
OYSTERS, MARKET:						
PACIFIC	-	-	6,506	2,369	306	135
WESTERN	-	-	58	173	1	3
TOTAL OYSTERS	-	-	6,564	2,542	307	138
SCALLOPS, SEA	1,441	1,484	11	11	-	-
SQUID	-	-	(2)	(2)	-	-
KELP (WITH HERRING EGGS). .	230	115	-	-	-	-
TOTAL SHELLFISH ET AL.	152,224	20,639	26,844	6,613	28,862	5,271
GRAND TOTAL	545,326	96,118	133,638	29,516	98,089	22,962

SPECIES	CALIFORNIA 1/		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ANCHOVIES	192,485	2,157	192,928	2,171
ARCTIC CHAR	-	-	9	1
BARRACUDA	25	7	25	7
BONITO.	9,192	651	9,192	651
CABEZONE.	11	1	11	1
CARP.	386	27	1,081	31
COD	-	-	2,984	200
DOLLY VARDEN TROUT.	-	-	2	(2)
FLOUNDERS:				
ARROWTOOTH HALIBUT. . . .	6	(2)	6	(2)
CALIFORNIA HALIBUT. . . .	3/ 257	3/ 91	257	91
SAND DABS	678	70	678	70
"SOLE".	23,814	2,303	43,578	3,868
UNCLASSIFIED.	3/ 278	3/ 19	1,467	73
FLYING FISH	79	12	79	12
GROUPERS.	7	2	7	2
HAKE.	10	(2)	9,019	78
HALFMOON.	39	9	39	9
HALIBUT	-	-	34,349	8,715
HERRING, SEA.	316	37	21,818	653
JACK MACKEREL	47,747	1,881	47,747	1,881
KING CROAKER.	565	45	565	45
LAMPREY	-	-	4	1
LINGCOD	1,531	139	5,911	459
MACKEREL, PACIFIC	622	50	622	50
OCEAN PERCH	-	-	15,266	963
OPALEYE	22	4	22	4
PERCH	241	43	490	73
PIKE OR PICKEREL.	-	-	(2)	(2)
POLLOCK	-	-	427	5
POMPANO	131	41	131	41
RATFISH	-	-	640	5
ROCKFISHES.	10,687	825	27,610	1,832
SABLEFISH	4,428	319	6,474	607
SALMON:				
CHINOOK OR KING	5,269	4,424	31,685	17,562
CHUM OR KETA.	-	-	57,396	7,294
PINK.	-	-	117,762	15,572
RED OR SOCKEYE.	-	-	159,568	41,071
SILVER OR COHO.	1,342	677	43,708	17,188
TOTAL SALMON.	6,611	5,101	410,119	98,687
SARDINE, PACIFIC.	442	101	442	101
SCULPIN	155	46	180	49
SEA BASS:				
BLACK	130	30	130	30
WHITE	1,101	386	1,101	386
SHAD.	-	-	724	87
SHARKS:				
GRAYFISH.	-	-	496	3
UNCLASSIFIED.	420	53	437	53
TOTAL SHARKS.	420	53	933	56
SHEEFISH.	-	-	3	1
SHEEPSHEAD.	4	(2)	4	(2)
SKATES.	103	1	407	6

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	CALIFORNIA 1/		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SMELT:				
EULACHON.	-	-	1,264	114
SURF OR SILVER.	562	48	791	75
STEELHEAD TROUT	-	-	507	191
STRIPED BASS.	-	-	50	8
STURGEON, COMMON.	-	-	566	89
SWORDFISH	945	534	945	534
TOMCOD.	-	-	161	2
TUNA:				
ALBACORE.	29,932	7,846	56,120	14,998
BLUEFIN	8,655	1,596	8,655	1,596
SKIPJACK.	76,481	12,083	76,890	12,148
YELLOWFIN	231,975	41,890	236,705	42,752
TOTAL TUNA.	347,043	63,415	378,370	71,494
TURBOT.	28	2	28	2
WHITEBAIT	250	31	250	31
WHITEFISH	2	(2)	63	12
YELLOWTAIL.	184	25	184	25
UNCLASSIFIED:				
FOR FOOD.	416	124	416	124
FOR BAIT AND ANIMAL FOOD.	2,288	62	2,288	62
TOTAL FISH.	654,241	78,692	1,223,364	194,765
SHELLFISH ET AL.				
CRABS:				
DUNGENESS	15,415	3,945	58,508	12,077
KING.	-	-	52,061	13,190
ROCK.	538	60	538	60
SNOW.	-	-	14,473	1,417
TOTAL CRABS	15,953	4,005	125,580	26,744
CRAWFISH, FRESH-WATER . . .	-	-	70	23
LOBSTER, SPINY.	225	268	225	268
SHRIMP:				
BAY	-	-	33	19
OCEAN	4,072	585	92,826	5,464
ABALONE	580	948	580	948
CLAMS:				
GEODUCK	-	-	21	13
HARD.	-	-	470	224
HORSE	-	-	8	1
RAZOR	-	-	358	313
SOFT.	-	-	9	12
MIXED	-	-	6	7
TOTAL CLAMS	-	-	872	570
OCTOPUS	4	(2)	25	3
OYSTERS, MARKET:				
EASTERN	17	49	17	49
PACIFIC	1,103	993	7,915	3,497
WESTERN	-	-	59	176
TOTAL OYSTERS	1,120	1,042	7,991	3,722
SCALLOPS, SEA	-	-	1,452	1,495
SQUID	24,591	667	24,591	667
SHELLFISH, UNCLASSIFIED . .	109	47	109	47
KELP (WITH HERRING EGGS). .	-	-	230	115
TOTAL SHELLFISH ET AL.	46,654	7,562	254,584	40,085
WHALE PRODUCTS				
MEAL.	662	44	662	44
MEAT.	483	48	483	48
OIL:				
SPERM	602	40	602	40
WHALE	78	6	78	6
TOTAL WHALE PRODUCTS.	1,825	138	1,825	138
GRAND TOTAL	702,720	86,392	1,479,773	234,988

1/ INCLUDES THE CATCH TAKEN OFF LATIN AMERICA AND LANDED AT CALIFORNIA PORTS. 2/ LESS THAN 500 POUNDS OR $500.

3/ SOME HALIBUT MAY BE INCLUDED WITH "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS".

NOTE:--CATCH STATISTICS FOR ALASKA, WASHINGTON, AND OREGON ARE SHOWN IN ROUND WEIGHT, WHILE THOSE FOR CALIFORNIA ARE SHOWN IN WEIGHTS AS LANDED, EXCEPT FOR SHELL MOLLUSKS. IN ALL STATES, CLAMS AND OYSTERS ARE REPORTED IN WEIGHT OF TOTAL MEATS; ABALONE AND SCALLOPS IN WEIGHT OF EDIBLE MEAT. ALASKA DATA INCLUDE THE CATCH OF HALIBUT, SABLEFISH, AND ROCKFISHES LANDED BY U.S. VESSELS AT BRITISH COLUMBIA PORTS.

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	ALASKA		WASHINGTON	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
COD:					
FILLETS, FRESH AND FROZEN	POUNDS	-	-	844,809	298,812
LUTEFISK	DO	-	-	(1)	(1)
FLOUNDER, FILLETS, FRESH AND FROZEN	DO	-	-	1,700,978	969,877
HAKE:					
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
HALIBUT:					
FRESH AND FROZEN:					
FILLETS	POUNDS	-	-	732,921	637,255
STEAKS	DO	-	-	5,417,100	4,400,970
CHEEKS AND FLETCHES	DO	552,435	617,040	-	-
SMOKED	DO	-	-	329,700	171,236
HERRING, SEA:					
FRESH AND FROZEN FOR BAIT	DO	6,486,133	270,614	-	-
SALTED:					
FISH	DO	13,900	3,109	-	-
ROE	DO	252,029	417,719	-	-
EGGS WITH KELP	DO	79,553	59,329	-	-
MEAL AND SCRAP	TONS	28	5,238	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
LINGCOD FILLETS, FRESH AND FROZEN	POUNDS	-	-	826,899	281,870
OCEAN PERCH, PACIFIC, FRESH AND FROZEN, FILLETS	DO	-	-	2,843,043	1,013,506
ROCKFISH, FILLETS, FRESH AND FROZEN	DO	-	-	3,813,692	1,268,089
SABLEFISH:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	-	-	(3)	(3)
SALTED	DO	-	-	(1)	(1)
SMOKED	DO	786	176	148,130	100,697
SALMON:					
FRESH AND FROZEN:					
FOR BAIT	DO	29,132	8,773	-	-
FILLETS	DO	-	-	790,814	968,225
STEAKS	DO	-	-	773,900	721,805
EGGS FOR BAIT	DO	179,640	158,927	-	-
CANNED:					
CHINOOK OR KING	STANDARD CASES	27,181	1,079,398	2,783	122,118
CHUM OR KETA	DO	449,946	12,031,524	14,067	452,545
PINK	DO	1,328,532	42,104,906	11,191	437,797
RED OR SOCKEYE	DO	1,705,471	67,430,141	108,702	6,802,250
SILVER OR COHO	DO	53,378	1,931,563	41,241	1,909,128
TOTAL	DO	3,564,508	124,577,532	177,984	9,723,838
SMOKED	DO	448	36,946	1,679	161,316
EGGS FOR BAIT	DO	-	-	(1)	(1)
ANIMAL FOOD	DO	-	-	(1)	(1)
SALTED:					
SALTED AND PICKLED	POUNDS	566,820	454,835	38,400	40,975
MILD CURED	DO	903,170	1,070,791	1,491,654	1,886,385
CAVIAR	DO	9,718,438	10,727,786	394,395	657,893
BELLIES	DO	-	-	(1)	(1)
EGGS FOR BAIT	DO	-	-	(1)	(1)
SMOKED	DO	7,801	14,448	571,820	590,242
SHAD, CANNED:					
ROE	STANDARD CASES	-	-	523	70,097
SMOKED	DO	-	-	(1)	(1)
STURGEON:					
CANNED (SMOKED)	STANDARD CASES	-	-	296	21,497
SWORDFISH:					
FILLETS AND STEAKS, FRESH AND FROZEN	POUNDS	-	-	893,158	745,961
TUNA:					
CANNED:					
ALBACORE	STANDARD CASES	-	-	158,614	2,758,609
LIGHT MEAT	DO	-	-	(5)	(5)
TOTAL	DO	-	-	158,614	2,758,609

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	ALASKA		WASHINGTON	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
TUNA - CONTINUED					
SPECIALTIES (SMOKED, CREAMED, ETC.)	STANDARD CASES	-	-	(1)	(1)
ANIMAL FOOD	DO	-	-	(1)	(1)
CRABS:					
DUNGENESS:					
FRESH AND FROZEN:					
COOKED MEAT	POUNDS	157,226	277,058	1,745,439	2,693,542
SECTIONS	DO	2,405,560	1,133,021	-	-
WHOLE COOKED	DO	2,583,602	1,177,247	-	-
CANNED:					
REGULAR	STANDARD CASES	5,412	209,489	53,330	2,250,964
SPECIALTIES (SMOKED)	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	-	-	653	33,355
KING:					
FRESH AND FROZEN:					
COOKED MEAT	POUNDS	7,040,738	14,147,875	(1)	(1)
SECTIONS	DO	5,061,187	5,937,001	-	-
WHOLE COOKED	DO	1,651,001	1,733,995	-	-
CANNED REGULAR	STANDARD CASES	55,857	3,017,099	-	-
SNOW:					
FRESH AND FROZEN:					
COOKED MEAT	POUNDS	1,165,791	1,619,121	(1)	(1)
SECTIONS	DO	1,099,318	429,138	-	-
WHOLE COOKED	DO	20,807	11,408	-	-
CANNED REGULAR	STANDARD CASES	42,527	1,604,292	-	-
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS	POUNDS	1,055,445	1,055,430	-	-
SECTIONS, COOKED	DO	23,309	31,113	-	-
PEELED (INCLUDING DEVEINED), COOKED	DO	2,924,363	3,221,856	(1)	(1)
BREADED RAW AND COOKED	DO	-	-	(1)	(1)
SPECIALTIES (COCKTAILS, REFRIGERATED DIPS, NEWBURGS, CREOLES, ETC.)	DO	-	-	(1)	(1)
CANNED, REGULAR	STANDARD CASES	1,102,316	9,895,633	(1)	(1)
ABALONE, FRESH AND FROZEN, SHUCKED MEATS	POUNDS	492	984	-	-
CLAMS:					
HARD:					
SHUCKED, FRESH	GALLONS	-	-	(1)	(1)
CANNED:					
WHOLE AND MINCED	STANDARD CASES	-	-	(1)	(1)
CHOWDER AND JUICE	DO	-	-	(1)	(1)
SPECIALTIES (IN SHELL AND STEW BASE)	DO	-	-	3,499	37,116
RAZOR:					
FRESH AND FROZEN, SHUCKED	GALLONS	26,648	73,618	1,495	26,660
CANNED:					
WHOLE AND MINCED	STANDARD CASES	144	4,496	1,221	61,723
SPECIALTIES (SMOKED)	DO	-	-	(1)	(1)
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED:					
PACIFIC	GALLONS	-	-	545,582	3,328,186
WESTERN	DO	-	-	4,063	144,256
BREADED RAW, PACIFIC	POUNDS	-	-	(1)	(1)
SPECIALTIES (STUFFED, BREADED AND COOKED)	DO	-	-	(1)	(1)
CANNED:					
REGULAR	STANDARD CASES	-	-	(1)	(1)
SMOKED	DO	-	-	692	58,194
SPECIALTIES (SOUPS, STEWS)	DO	-	-	168,510	2,625,110
ANIMAL FOOD	DO	-	-	(1)	(1)
SCALLOPS, SEA, FROZEN, SHUCKED MEATS	POUNDS	1,458,340	1,907,024	-	-

(CONTINUED ON NEXT PAGE)

SEE FOOTNOTES AT END OF TABLE.

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	ALASKA		WASHINGTON	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED:					
STICKS, BREADED:					
RAW	POUNDS	-	-	(1)	(1)
COOKED	DO	-	-	(1)	(1)
PORTIONS:					
RAW, BREADED	DO	-	-	271,260	132,200
BREADED AND COOKED	DO	-	-	(1)	(1)
FISH AND SHELLFISH	DO	-	-	996,903	818,305
CANNED:					
ANIMAL FOOD	STANDARD CASES	-	-	181,816	1,638,379
OTHER, FISH AND SHELLFISH	DO	-	-	122,184	4,348,653
CURED	POUNDS	-	-	101,627	47,891
INDUSTRIAL	-	-	-	-	1,511,324
TOTAL	-	-	185,910,161	-	46,240,921

ITEM	UNIT	OREGON		CALIFORNIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
ANCHOVIES:					
FROZEN WHOLE, FOR BAIT	POUNDS	-	-	388,558	64,636
SALTED	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	-	-	16,204	2,786,993
OIL	1000 LBS	-	-	6,165	439,333
BARRACUDA, SMOKED	POUNDS	-	-	7,123	5,061
CATFISH FILLETS, BREADED, COOKED	DO	-	-	(1)	(1)
COD:					
FILLETS:					
FRESH AND FROZEN	DO	31,753	10,710	(2)	(2)
BREADED RAW, FROZEN	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (PATTIES, BREADED AND COOKED)	DO	-	-	(1)	(1)
SMOKED	DO	-	-	(1)	(1)
FLOUNDER:					
FILLETS:					
FRESH AND FROZEN	DO	3,421,386	1,941,455	9,116,163	4,061,089
BREADED AND COOKED, FROZEN	DO	-	-	(1)	(1)
SPECIALTIES, FROZEN (PATTIES, BREADED AND COOKED, AND IN LEMON BUTTER SAUCE)	DO	-	-	(1)	(1)
SALTED	DO	-	-	(1)	(1)
HADDOCK, SPECIALTIES, FROZEN (PATTIES, BREADED AND COOKED)	DO	-	-	(1)	(1)
HALIBUT:					
FRESH AND FROZEN:					
FILLETS	DO	-	-	(2)	(2)
STEAKS:					
NATURAL	DO	(2)	(2)	1,049,380	752,480
BREADED AND COOKED	DO	-	-	(1)	(1)
SPECIALTIES, (PATTIES AND FISH AND CHIPS, BREADED AND COOKED, AND IN LEMON BUTTER SAUCE)	DO	-	-	(1)	(1)
SMOKED	DO	-	-	192,378	149,380
HERRING, SEA:					
FRESH AND FROZEN FOR BAIT	DO	-	-	(1)	(1)
SMOKED	DO	-	-	(1)	(1)
LINGCOD:					
FILLETS, FRESH AND FROZEN	DO	256,758	91,637	172,768	69,165
SMOKED	DO	-	-	(1)	(1)
MACKEREL:					
FRESH AND FROZEN:					
DRESSED	DO	-	-	(1)	(1)
FOR BAIT	DO	-	-	(1)	(1)
FILLETS	DO	-	-	(1)	(1)
CANNED:					
JACK AND PACIFIC (NATURAL AND IN TOMATO SAUCES)	STANDARD CASES	-	-	188,609	1,533,935
ANIMAL FOOD	DO	-	-	315,287	5,189,390
SMOKED	POUNDS	-	-	1,068	558
MEAL AND SCRAP	TONS	-	-	(1)	(1)
MARLIN:					
CANNED (SMOKED)	STANDARD CASES	-	-	(1)	(1)
SMOKED	POUNDS	-	-	(1)	(1)

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	OREGON		CALIFORNIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
OCEAN PERCH, PACIFIC, FRESH AND FROZEN:					
FILLETS	POUNDS	398,947	140,924	(2)	(2)
SPECIALTIES, (PATTIES, BREADED AND COOKED)	DO	-	-	(1)	(1)
PERCH FILLETS, FRESH AND FROZEN	DO	-	-	430,915	169,715
ROCKFISH:					
FILLETS, FRESH AND FROZEN	DO	1,155,067	417,462	3,692,040	1,339,701
SALTED	DO	-	-	(1)	(1)
SMOKED	DO	-	-	(1)	(1)
SABLEFISH:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	(3)	(3)	193,950	69,313
SALTED	DO	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	439,522	307,074
SALMON:					
FRESH AND FROZEN:					
FILLETS	DO	-	-	(2)	(2)
STEAKS	DO	(2)	(2)	1,012,246	940,677
SPECIALTIES (CAKES, COOKED)	DO	-	-	(1)	(1)
CANNED:					
CHINOOK OR KING	STANDARD CASES	20,950	1,248,784	(4)	(4)
CHUM OR KETA	DO	1,485	44,942	-	-
PINK	DO	131	5,760	-	-
RED SOCKEYE	DO	17,019	1,025,642	-	-
SILVER OR COHO	DO	39,869	2,032,218	-	-
STEELHEAD	DO	254	14,718	-	-
TOTAL	DO	79,768	4,372,064	(4)	(4)
SMOKED	DO	407	36,200	(2)	(2)
ANIMAL FOOD	DO	(1)	(1)	-	-
SALTED:					
SALTED AND PICKLED	POUNDS	-	-	(1)	(1)
MILD CURED	DO	-	-	1,682,479	1,893,398
CAVIAR	DO	(1)	(1)	-	-
SMOKED	DO	22,200	39,700	1,622,464	2,008,290
OIL	1000 LBS	(1)	(1)	-	-
SARDINES, PACIFIC, SALTED	POUNDS	-	-	(1)	(1)
SEABASS:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	-	-	328,165	193,957
SMOKED	DO	-	-	1,555	1,041
SHAD:					
CANNED:					
FISH	STANDARD CASES	(1)	(1)	-	-
ROE	DO	(2)	(2)	(2)	(2)
SMOKED	POUNDS	-	-	(1)	(1)
SHARK, SMOKED	DO	-	-	(1)	(1)
SMELT:					
FROZEN FOR BAIT	DO	-	-	(1)	(1)
DRESSED	DO	-	-	(1)	(1)
SALTED	DO	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-
FREEZE-DRIED	DO	-	-	(1)	(1)
STURGEON:					
CANNED (SMOKED)	STANDARD CASES	147	14,218	-	-
SMOKED	POUNDS	(1)	(1)	(1)	(1)
SWORDFISH:					
FILLETS AND STEAKS, FRESH AND FROZEN	DO	-	-	(2)	(2)
SMOKED	DO	-	-	138,194	216,621
TUNA:					
STEAKS, FRESH	DO	-	-	(1)	(1)
CANNED:					
ALBACORE	STANDARD CASES	1,430,291	27,745,719	1,734,408	33,970,532
LIGHT MEAT	DO	(5)	(5)	8,833,107	143,190,818
TOTAL	DO	1,430,291	27,745,719	10,567,515	177,161,350
SPECIALTIES (SMOKED, CREAMED, ETC.)	DO	(1)	(1)	(1)	(1)
ANIMAL FOOD	DO	132,803	1,726,695	2,080,630	27,099,844

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	OREGON		CALIFORNIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
TUNA - CONTINUED:					
SMOKED	POUNDS	(1)	(1)	307,066	394,231
MEAL AND SCRAP	TONS	-	-	(1)	(1)
OIL	1000 LBS	-	-	(1)	(1)
SOLUBLES	TONS	-	-	(1)	(1)
TUNALIKE FISH (BONITO AND YELLOWTAIL):					
FILLETS, FRESH AND FROZEN	POUNDS	-	-	(1)	(1)
CANNED:					
REGULAR	STANDARD CASES	-	-	139,541	1,450,339
SPECIALTIES	DO	-	-	(1)	(1)
SMOKED	POUNDS	-	-	56,907	53,120
WAHOO, SMOKED	DO	-	-	(1)	(1)
WHITEFISH, SMOKED	DO	-	-	(1)	(1)
WHITING, SMOKED	DO	-	-	(1)	(1)
CRABS:					
DUNGENESS:					
FRESH AND FROZEN:					
COOKED MEAT	DO	2,445,739	3,773,949	1,877,125	2,572,336
SPECIALTIES (COCKTAILS REFRIGERATED, AND DIPS)	DO	-	-	555,259	748,969
CANNED:					
REGULAR	STANDARD CASES	(2)	(2)	(2)	(2)
MEAL AND SCRAP	TONS	(2)	(2)	-	-
KING, FRESH AND FROZEN, COOKED MEAT	POUNDS	-	-	(1)	(1)
LOBSTERS, SPINY FROZEN:					
RAW:					
WHOLE	POUNDS	-	-	(1)	(1)
TAILS	DO	-	-	(1)	(1)
SPECIALTIES (NEWBURGS, COOKED)	DO	-	-	(1)	(1)
SHRIMP:					
FRESH AND FROZEN:					
RAW HEADLESS	DO	-	-	(1)	(1)
FOR BAIT	DO	-	-	(1)	(1)
PEELED (INCLUDING DEVEINED):					
RAW	DO	-	-	1,142,675	1,346,743
COOKED	DO	2,379,455	3,303,987	2.713.235	3,952,828
BREADED, RAW AND COOKED	DO	-	-	9,445,105	12,104,817
SPECIALTIES (COCKTAILS REFRIGERATED, DIPS, NEWBURGS, CREOLES, ETC.)	DO	-	-	2,211,313	2,061,009
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (PICKLED PRAWNS)	DO	(1)	(1)	-	-
SMOKED	POUNDS	-	-	(1)	(1)
SUN-DRIED	DO	-	-	(1)	(1)
MEAL AND SCRAP	TONS	(1)	(1)	-	-
ABALONE:					
FRESH AND FROZEN, STEAKS:					
RAW	DO	-	-	462,469	1,073,577
BREADED, RAW	DO	-	-	(1)	(1)
SPECIALTIES (PATTIES, BREADED, RAW)	DO	-	-	(1)	(1)
CANNED, NATURAL	STANDARD CASES	-	-	(1)	(1)
CLAMS, HARD, CANNED, WHOLE, AND MINCED	DO	-	-	(1)	(1)
RAZOR:					
FRESH AND FROZEN:					
SHUCKED	GALLONS	(1)	(1)	-	-
CANNED:					
WHOLE AND MINCED	STANDARD CASES	(2)	(2)	-	-
SPECIALTIES (SMOKED)	DO	(1)	(1)	-	-
OYSTERS:					
FRESH AND FROZEN:					
SHUCKED:					
EASTERN	GALLONS	-	-	(1)	(1)
PACIFIC	DO	102,003	555,690	102,330	469,097
WESTERN	DO	1,772	51,637	-	-
BREADED RAW, EASTERN	POUNDS	-	-	305,719	256,651

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	OREGON		CALIFORNIA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
OYSTER- CONTINUED					
CANNED:					
REGULAR	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (SOUP, STEWS)	DO	(1)	(1)	-	-
SHELL, GRIT AND LIME	TONS	(1)	(1)	-	-
SCALLOPS, SEA FROZEN:					
SPECIALTIES:					
BREADED, RAW AND COOKED	DO	-	-	1,138,738	1,519,548
COOKED, IN SAUCES	DO	-	-	(1)	(1)
SQUID:					
FROZEN NATURAL	DO	-	-	9,770,368	1,227,002
CANNED	STANDARD CASES	-	-	(1)	(1)
KELP, WITH URCHIN ROE:					
FRESH	POUNDS	-	-	(1)	(1)
SALTED	DO	-	-	(1)	(1)
WHALE:					
MEAT, FROZEN	DO	-	-	482,974	48,297
MEAL AND SCRAP	TONS	-	-	331	44,212
OIL:					
SPERM	1000 LBS	-	-	602	39,888
OTHER	DO	-	-	78	6,131
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED:					
STICKS, BREADED:					
RAW	POUNDS	-	-	1,569,500	728,239
COOKED	DO	-	-	15,231,039	8,834,689
PORTIONS:					
RAW:					
NOT BREADED	DO	-	-	217,350	101,573
BREADED	DO	-	-	1,746,250	819,222
BREADED AND COOKED	DO	-	-	1,765,511	1,011,981
FISH AND SHELLFISH	DO	(6)	(6)	4,398,350	3,596,307
CANNED:					
ANIMAL FOOD	STANDARD CASES	269,195	1,651,940	949,932	8,535,923
OTHER, FISH AND SHELLFISH	DO	54,368	513,487	203,064	1,204,698
CURED	POUNDS	37,450	60,135	780,062	455,823
INDUSTRIAL	-	-	942,888	-	18,037,099
TOTAL	-	-	47,757,458	-	299,784,681

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

2/ THE PRODUCTION OF CERTAIN ITEMS IN OREGON AND CALIFORNIA HAS BEEN INCLUDED WITH WASHINGTON.

3/ THE PRODUCTION OF SABLEFISH FILLETS AND STEAKS PRODUCED IN WASHINGTON AND OREGON HAS BEEN INCLUDED WITH CALIFORNIA.

4/ A SMALL PACK OF CANNED SALMON PRODUCED IN CALIFORNIA HAS BEEN INCLUDED IN OREGON.

5/ THE PACK OF LIGHT MEAT TUNA HAS BEEN INCLUDED WITH ALBACORE.

6/ INCLUDED WITH CURED FISHERY PRODUCTS.

NOTE:-THIS TABLE WILL NOT ADD. INDIVIDUAL STATE TOTALS ARE CORRECT. SOME OF THE PRODUCTS HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

PACIFIC COAST FISHERIES

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH.	24,442
FROZEN	88,267
CANNED	421,337
CURED.	21,801
INDUSTRIAL	23,846
TOTAL	579,693

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
ALASKA	185,910
WASHINGTON	4[illegible],241
OREGON	[illegible]
CALIFORNIA	299,785
TOTAL	[illegible]

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
ALASKA 1/	108	6,500	3,000	-	-	-	108	6,500	3,000
WASHINGTON. . . .	112	3,004	2,475	28	320	241	140	3,324	2,716
OREGON.	51	3,174	2,254	9	29	25	60	3,203	2,279
CALIFORNIA. . . .	115	8,446	6,895	87	776	716	202	9,222	7,611
TOTAL. . . .	386	21,124	14,624	124	1,125	982	510	22,24[illegible]	15,[illegible]

1/ DATA PARTLY ESTIMATED.

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

PACIFIC COAST FISHERIES

ALASKA

LANDINGS BY REGIONS, 1970

SPECIES	SOUTHEASTERN ALASKA		CENTRAL ALASKA		WESTERN ALASKA	
FISH	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ARCTIC CHAR	-	-	-	-	9,100	1,456
COD	68,700	6,526	134,800	13,134	-	-
DOLLY VARDEN TROUT	1,800	396	-	-	-	-
FLOUNDERS, UNCLASSIFIED	38,600	1,930	-	-	-	-
HALIBUT	17,180,900	4,211,300	11,154,700	2,734,200	-	-
HERRING, SEA	6,649,600	147,848	10,323,000	206,460	63,300	1,267
LINGCOD	50,500	5,556	-	-	-	-
PIKE OR PICKEREL	-	-	-	-	200	45
ROCKFISHES	17,000	1,020	-	-	-	-
SABLEFISH	803,300	148,110	10,800	2,158	-	-
SCULPIN	-	-	25,200	2,523	-	-
SALMON: 1/						
CHINOOK OR KING	4,588,600	3,608,297	911,900	299,264	6,046,000	1,127,230
CHUM OR KETA	20,483,400	2,848,068	24,701,000	2,765,357	9,306,100	1,002,721
PINK	41,442,300	5,428,100	71,852,700	9,633,457	4,422,700	500,955
RED OR SOCKEYE	4,249,000	1,334,071	37,449,800	9,756,152	109,113,400	26,159,254
SILVER OR COHO	5,823,000	2,065,255	5,182,700	1,319,355	892,300	127,198
TOTAL SALMON	76,586,300	15,283,791	140,098,100	23,773,585	129,780,500	28,917,358
SHEEFISH	-	-	-	-	2,700	675
SMELT	11,900	1,309	-	-	-	-
STEELHEAD TROUT	26,400	5,289	2,800	557	1,400	277
WHITEFISH	-	-	-	-	60,600	11,829
TOTAL FISH	101,435,000	19,813,075	161,749,400	26,732,617	129,917,800	28,932,907
SHELLFISH ET AL.						
CRABS:						
DUNGENESS	2,289,300	343,271	6,695,200	992,650	711,900	78,310
KING	577,800	156,261	19,587,100	5,378,341	31,896,100	7,655,070
SNOW	583,200	63,870	12,425,700	1,221,602	1,464,400	131,795
SHRIMP	957,900	47,464	73,298,400	2,932,134	-	-
CLAMS, RAZOR (MEATS)	-	-	67,200	40,042	(2)	18
SCALLOPS, SEA (MEATS)	22,700	23,635	1,417,600	1,460,140	-	-
KELP (WITH HERRING EGGS)	-	-	190,400	95,187	38,900	19,428
TOTAL SHELLFISH ET AL.	4,430,900	634,501	113,681,600	12,120,096	34,111,300	7,884,621
GRAND TOTAL	105,865,900	20,447,576	275,431,000	38,852,713	164,029,100	36,817,528

1/ THE ROUND WEIGHTS USED IN LANDING TABLES WERE OBTAINED BY MULTIPLYING NUMBER OF FISH BY THEIR AVERAGE WEIGHT.

2/ LESS THAN 50 POUNDS.

NOTE:--THE ABOVE DATA INCLUDE LANDINGS OF HALIBUT, SABLEFISH, LINGCOD, AND ROCKFISHES BY VESSELS OF U.S. REGISTRY AT BRITISH COLUMBIA PORTS. ROUND WEIGHTS OF FISH TAKEN BY HALIBUT VESSELS WERE OBTAINED BY MULTIPLYING REPORTED WEIGHTS, REPRESENTING POUNDAGE OF FISH EVISCERATED AND WITH HEADS-OFF, BY THE FOLLOWING FACTORS: HALIBUT, 1.33; SABLEFISH AND ROCKFISHES, 1.43.

SOUTHEASTERN REGION OF ALASKA
OPERATING UNITS BY GEAR, 1970

ITEM	PURSE SEINES		BEAM TRAWLS, SHRIMP	OTTER TRAWLS, FISH
	HERRING	SALMON		
	NUMBER			
FISHERMEN:				
ON VESSELS	66	2,370	33	8
ON BOATS AND SHORE	-	12	-	4
TOTAL	66	2,382	33	12
VESSELS, MOTOR	11	395	11	2
GROSS TONNAGE	396	13,413	281	92
BOATS, MOTOR	11	417	-	1
GEAR:				
NUMBER	11	406	11	3
LENGTH, YARDS	5,500	183,400	-	-
YARDS AT MOUTH	-	-	121	45

ITEM	FLOATING TRAPS	POTS		
		CRAB		
		DUNGENESS	KING	SNOW
	NUMBER			
FISHERMEN:				
ON VESSELS	-	78	90	81
ON BOATS AND SHORE	8	6	2	-
TOTAL	8	84	92	81
VESSELS, MOTOR	-	26	30	27
GROSS TONNAGE	-	937	1,477	1,268
BOATS, MOTOR	-	3	1	-
GEAR, NUMBER	4	5,240	2,200	1,860

ITEM	POTS - CONTINUED	GILL NETS		LINES
	SHRIMP	ANCHOR, SET OR STAKE	DRIFT	TROLL
	NUMBER			
FISHERMEN:				
ON VESSELS	10	-	296	1,410
ON BOATS AND SHORE	-	157	196	2,476
TOTAL	10	157	492	3,886
VESSELS, MOTOR	5	-	148	705
GROSS TONNAGE	149	-	1,855	11,667
BOATS, MOTOR	-	157	196	1,245
GEAR:				
NUMBER	680	157	344	7,772
SQUARE YARDS	-	137,088	788,090	-
HOOKS OR BAITS	-	-	-	46,632

ITEM	LINES - CONTINUED	DREDGES, SCALLOP, SEA	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS		
	NUMBER		
FISHERMEN:			
ON VESSELS	348	10	4,214
ON BOATS AND SHORE	178	-	2,886
TOTAL	526	10	7,100
VESSELS, MOTOR	95	2	1,445
GROSS TONNAGE	2,532	302	27,892
BOATS, MOTOR	90	-	2,011
GEAR:			
NUMBER	3,191	2	-
YARDS AT MOUTH	-	16	-
HOOKS OR BAITS	262,655	-	-

PACIFIC COAST FISHERIES

SOUTHEASTERN REGION OF ALASKA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES		BEAM TRAWLS, SHRIMP		OTTER TRAWLS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	-	-	16,400	1,558
DOLLY VARDEN TROUT	1,400	308	-	-	-	-
FLOUNDERS, UNCLASSIFIED	-	-	-	-	38,600	1,930
HERRING, SEA	6,135,800	137,572	-	-	-	-
ROCKFISHES	-	-	-	-	300	18
SALMON:						
CHINOOK OR KING	80,600	15,314	-	-	-	-
CHUM OR KETA	15,543,300	2,154,330	-	-	-	-
PINK	36,882,600	4,819,802	-	-	-	-
RED OR SOCKEYE	1,924,100	557,989	-	-	-	-
SILVER OR COHO	2,171,600	456,036	-	-	-	-
TOTAL SALMON	56,602,200	8,003,471	-	--	-	-
SMELT	11,900	1,309	-	-	-	-
STEELHEAD TROUT	5,700	1,140	-	-	-	-
SHRIMP	-	-	925,100	45,824	-	-
TOTAL	62,757,000	8,143,800	925,100	45,824	55,300	3,506

SPECIES	FLOATING TRAPS		POTS			
			CRAB			
			DUNGENESS		KING	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
HERRING, SEA	513,800	10,276	-	-	-	-
SALMON:						
CHUM OR KETA	13,600	1,768	-	-	-	-
PINK	463,400	64,876	-	-	-	-
RED OR SOCKEYE	17,400	5,394	-	-	-	-
SILVER OR COHO	15,300	5,355	-	-	-	-
TOTAL SALMON	509,700	77,393	-	-	-	-
CRABS:						
DUNGENESS	-	-	2,289,300	343,271	-	-
KING	-	-	-	-	577,800	156,261
TOTAL	1,023,500	87,669	2,289,300	343,271	577,800	156,261

SPECIES	POTS - CONTINUED				GILL NETS	
	CRAB - CONTINUED		SHRIMP		ANCHOR, SET, OR STAKE	
	SNOW					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:						
CHINOOK OR KING	-	-	-	-	44,100	35,280
CHUM OR KETA	-	-	-	-	97,700	13,678
PINK	-	-	-	-	35,400	4,956
RED OR SOCKEYE	-	-	-	-	705,100	239,734
SILVER OR COHO	-	-	-	-	290,500	104,580
TOTAL SALMON	-	-	-	-	1,172,800	398,228
CRABS, SNOW	583,200	63,870	-	-	-	-
SHRIMP	-	-	32,800	1,640	-	-
TOTAL	583,200	63,870	32,800	1,640	1,172,800	398,228

SPECIES	GILL NETS-CONTINUED		LINES				DREDGES, SCALLOP SEA	
	DRIFT		TROLL		LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	1,000	950	51,300	4,018	-	-
DOLLY VARDEN TROUT	-	-	400	88	-	-	-	-
HALIBUT	-	-	-	-	17,180,900	4,211,300	-	-
LINGCOD	-	-	21,200	2,332	29,300	3,224	-	-
ROCKFISHES	-	-	1,300	78	15,400	924	-	-
SABLEFISH	-	-	-	-	803,300	148,110	-	-
SALMON:								
CHINOOK OR KING	111,600	89,280	4,351,500	3,467,791	800	632	-	-
CHUM OR KETA	4,806,200	672,868	22,600	5,424	-	-	-	-
PINK	3,810,400	533,456	250,500	5,010	-	-	-	-
RED OR SOCKEYE	1,598,000	529,282	4,400	1,672	-	-	-	-
SILVER OR COHO	1,446,600	520,524	1,898,900	978,708	100	52	-	-
TOTAL SALMON	11,772,800	2,345,410	6,527,900	4,458,605	900	684	-	-
STEELHEAD TROUT	20,500	4,109	200	40	-	-	-	-
SCALLOPS, SEA	-	-	-	-	-	-	22,700	23,135
TOTAL	11,793,300	2,349,519	6,552,000	4,462,093	18,081,100	4,368,260	22,700	23,135

PACIFIC COAST FISHERIES

CENTRAL REGION OF ALASKA
OPERATING UNITS BY GEAR, 1970

ITEM	PURSE SEINES 1/		OTTER TRAWLS	
	HERRING	SALMON	FISH	SHRIMP
	NUMBER			
FISHERMEN:				
ON VESSELS	174	3,576	52	102
ON BOATS AND SHORE	60	770	-	3
TOTAL	234	4,346	52	105
VESSELS, MOTOR	29	596	13	34
GROSS TONNAGE	493	11,322	1,008	2,311
BOATS, MOTOR	49	1,213	-	1
GEAR:				
NUMBER	38	947	13	36
LENGTH, YARDS	19,500	327,580	-	-
YARDS AT MOUTH	-	-	195	540

ITEM	POTS			
	CRAB			SHRIMP
	DUNGENESS	KING	SNOW	
	NUMBER			
FISHERMEN:				
ON VESSELS	171	555	402	28
ON BOATS AND SHORE	40	64	32	10
TOTAL	211	619	434	38
VESSELS, MOTOR	57	185	134	14
GROSS TONNAGE	2,889	14,030	9,780	336
BOATS, MOTOR	27	32	16	6
GEAR, NUMBER	11,335	22,099	15,456	2,205

ITEM	GILL NETS		LINES	
	ANCHOR, SET, OR STAKE	DRIFT	TROLL	LONG OR SET WITH HOOKS
	NUMBER			
FISHERMEN:				
ON VESSELS	36	746	1,328	1,002
ON BOATS AND SHORE	724	1,038	1,724	828
TOTAL	760	1,784	3,052	1,830
VESSELS, MOTOR	21	373	664	261
GROSS TONNAGE	664	5,945	11,168	6,605
BOATS, MOTOR	721	1,038	862	414
GEAR:				
NUMBER	739	1,411	6,104	9,917
SQUARE YARDS	568,265	1,471,091	-	-
HOOKS OR BAITS	-	-	36,624	830,710

ITEM	DREDGES, SCALLOP, SEA	SHOVELS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	35	-	-	6,664
ON BOATS AND SHORE	-	42	125	4,514
TOTAL	35	42	125	11,178
VESSELS, MOTOR	7	-	-	1,819
GROSS TONNAGE	918	-	-	46,993
BOATS, MOTOR	-	-	-	4,379
GEAR:				
NUMBER	7	42		-
YARDS AT MOUTH	56	-	-	-

1/ INCLUDES HAUL SEINES.

PACIFIC COAST FISHERIES

CENTRAL REGION OF ALASKA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES 1/		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	46,700	4,765	-	-
HERRING, SEA	10,323,000	206,460	-	-	-	-
SALMON:						
CHINOOK OR KING	64,800	16,848	-	-	-	-
CHUM OR KETA	16,832,900	1,899,866	-	-	-	-
PINK	64,983,900	8,740,509	-	-	-	-
RED OR SOCKEYE	19,781,200	5,143,112	-	-	-	-
SILVER OR COHO	926,200	211,393	-	-	-	-
TOTAL SALMON	102,589,000	16,011,728	-	-	-	-
SCULPIN	-	-	25,200	2,523	-	-
SHRIMP	-	-	-	-	73,266,700	2,930,668
TOTAL	112,912,000	16,218,188	71,900	7,288	73,266,700	2,930,668

SPECIES	POTS							
	CRAB						SHRIMP	
	DUNGENESS		KING		SNOW			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS:								
DUNGENESS	6,695,200	992,650	-	-	-	-	-	-
KING	-	-	19,587,100	5,378,341	-	-	-	-
SNOW	-	-	-	-	12,425,700	1,221,602	-	-
SHRIMP	-	-	-	-	-	-	31,700	1,466
TOTAL	6,695,200	992,650	19,587,100	5,378,341	12,425,700	1,221,602	31,700	1,466

SPECIES	GILL NETS				LINES	
	ANCHOR, SET, OR STAKE		DRIFT		TROLL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	-	-	300	28
SALMON:						
CHINOOK OR KING	214,900	71,685	619,400	201,899	12,800	8,832
CHUM OR KETA	1,100,600	121,066	6,767,500	744,425	-	-
PINK	5,122,600	665,938	1,745,800	226,954	400	56
RED OR SOCKEYE	3,084,400	821,148	14,583,500	3,791,710	700	182
SILVER OR COHO	1,187,300	308,698	3,057,400	793,364	11,800	5,900
TOTAL SALMON	10,709,800	1,988,535	26,773,600	5,758,352	25,700	14,970
STEELHEAD TROUT	2,800	557	-	-	-	-
TOTAL	10,712,600	1,989,092	26,773,600	5,758,352	26,000	14,998

SPECIES	LINES - CONTINUED		DREDGES, SCALLOP, SEA	
	LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	87,800	8,341	-	-
HALIBUT	11,154,700	2,734,200	-	-
SABLEFISH	10,800	2,158	-	-
SCALLOPS, SEA	-	-	1,417,600	1,460,140
TOTAL	11,253,300	2,744,699	1,417,600	1,460,140

SPECIES	SHOVELS		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS, RAZOR (MEATS)	67,200	40,042	-	-
KELP (WITH HERRING EGGS)	-	-	190,400	95,187
TOTAL	67,200	40,042	190,400	95,187

1/ INCLUDES HAUL SEINES.

PACIFIC COAST FISHERIES

WESTERN REGION OF ALASKA
OPERATING UNITS BY GEAR, 1970

ITEM	PURSE SEINES 1/		POTS, CRAB	
	HERRING	SALMON	DUNGENESS	KING
	NUMBER			
FISHERMEN:				
ON VESSELS	-	240	6	291
ON BOATS AND SHORE	3	78	-	8
TOTAL	3	318	6	299
VESSELS, MOTOR	-	40	2	97
GROSS TONNAGE	-	1,029	301	15,121
BOATS, MOTOR	3	93	-	9
GEAR:				
NUMBER	3	67	775	10,724
LENGTH, YARDS	1,000	25,450	-	-

ITEM	POTS, CRAB - CONTINUED	GILL NETS	
	SNOW	ANCHOR, SET, OR STAKE	DRIFT
	NUMBER		
FISHERMEN:			
ON VESSELS	84	40	562
ON BOATS AND SHORE	-	1,520	2,385
TOTAL	84	1,560	2,947
VESSELS, MOTOR	28	20	281
GROSS TONNAGE	4,810	1,135	6,096
BOATS, MOTOR	-	1,520	2,385
GEAR:			
NUMBER	3,490	1,540	2,666
SQUARE YARDS	-	732,515	2,020,615

ITEM	FISH WHEELS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER		
FISHERMEN:			
ON VESSELS	-	-	1,770
ON BOATS AND SHORE	5	9	4,248
TOTAL	5	9	6,018
VESSELS, MOTOR	-	-	564
GROSS TONNAGE	-	-	26,603
BOATS, MOTOR	-	9	3,991
GEAR, NUMBER	5	-	-

1/ INCLUDES HAUL SEINES.

PACIFIC COAST FISHERIES

WESTERN REGION OF ALASKA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES 1/		POTS, CRAB			
			DUNGENESS		KING	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
HERRING, SEA.	63,300	1,267	-	-	-	-
SALMON:						
CHINOOK OR KING	100	22	-	-	-	-
CHUM OR KETA.	87,600	7,884	-	-	-	-
PINK.	2,706,200	324,744	-	-	-	-
RED OR SOCKEYE.	43,200	9,504	-	-	-	-
SILVER OR COHO.	13,000	1,820	-	-	-	-
TOTAL SALMON	2,850,100	343,974	-	-	-	-
CRABS:						
DUNGENESS	-	-	711,900	78,310	-	-
KING.	-	-	-	-	31,896,100	7,655,070
TOTAL.	2,913,400	345,241	711,900	78,310	31,896,100	7,655,070

SPECIES	POTS, CRAB - CONTINUED		GILL NETS			
	SNOW		ANCHOR, SET, OR STAKE		DRIFT	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ARCTIC CHAR	-	-	9,100	1,456	-	-
PIKE OR PICKEREL.	-	-	200	45	-	-
SALMON:						
CHINOOK OR KING	-	-	1,520,700	283,458	4,520,300	842,584
CHUM OR KETA.	-	-	4,180,100	451,450	5,033,200	542,826
PINK.	-	-	452,600	51,143	1,263,900	125,068
RED OR SOCKEYE.	-	-	7,390,200	1,766,257	101,680,000	24,383,493
SILVER OR COHO.	-	-	348,100	49,778	529,000	75,292
TOTAL SALMON	-	-	13,891,700	2,602,086	113,026,400	25,969,263
SHEEFISH.	-	-	2,700	675	-	-
STEELHEAD TROUT	-	-	1,400	277	-	-
WHITEFISH	-	-	53,500	10,425	7,100	1,340
CRABS, SNOW	1,464,400	131,795	-	-	-	-
TOTAL.	1,464,400	131,795	13,958,600	2,614,964	113,033,500	25,970,603

SPECIES	FISH WHEELS		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:				
CHINOOK OR KING	4,900	1,166	-	-
CHUM OR KETA.	5,200	561	-	-
SILVER OR COHO.	2,200	308	-	-
TOTAL SALMON	12,300	2,035	-	-
WHITEFISH	(2)	64	-	-
KELP (WITH HERRING EGGS). .	-	-	38,900	19,428
TOTAL.	12,300	2,099	38,900	19,428

1/ INCLUDES HAUL SEINES.
2/ LESS THAN 50 POUNDS.

PACIFIC COAST FISHERIES

WASHINGTON

LANDINGS BY DISTRICTS, 1970

SPECIES	PUGET SOUND		COASTAL		COLUMBIA RIVER	
FISH	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	5,800	676	262,100	7,862	174,700	5,242
CARP	-	-	-	-	695,400	3,980
COD	2,705,200	174,529	-	-	-	-
FLOUNDERS:						
"SOLE"	6,401,900	478,750	252,900	26,035	-	-
OTHER	370,000	20,532	27,600	1,390	17,900	333
HAKE	9,009,000	77,542	-	-	-	-
HALIBUT	5,862,200	1,730,265	12,200	2,700	100	35
HERRING, SEA	4,418,200	250,100	-	-	-	-
LINGCOD	2,951,900	219,564	220,400	15,309	4,200	188
OCEAN PERCH	13,652,700	861,000	-	-	-	-
PERCH	232,000	28,831	11,500	1,036	-	-
POLLOCK	426,900	4,803	-	-	-	-
RATFISH	640,100	5,523	-	-	-	-
ROCKFISHES	12,383,900	748,291	223,300	11,143	37,100	1,427
SABLEFISH	957,200	115,231	200	27	800	101
SALMON:						
CHINOOK OR KING	3,043,800	1,781,507	3,019,700	1,902,349	2,494,300	1,139,019
CHUM OR KETA	2,304,500	564,174	593,200	112,200	3,100	629
PINK	19,100	4,424	25,300	5,157	-	-
RED OR SOCKEYE	8,672,100	3,785,128	26,500	13,934	16,400	6,650
SILVER OR COHO	9,009,800	3,620,922	5,413,600	2,420,157	2,959,500	1,263,762
TOTAL SALMON	23,049,300	9,756,155	9,078,300	4,453,797	5,473,300	2,410,060
SHAD	-	-	2,600	204	23,400	1,912
SHARKS:						
GRAYFISH	478,500	2,855	-	-	-	-
OTHER	17,000	100	-	-	-	-
TOTAL SHARKS	[illegible]	[illegible]	-	-	-	-
SKATES	[illegible]	[illegible]	-	-	-	-
SMELT:						
EULACHON	600	219	-	-	1,111,500	87,859
SURF OR SILVER	45,800	6,677	175,100	19,333	-	-
STEELHEAD TROUT	10,000	4,500	200,000	95,000	80,300	25,425
STURGEON, COMMON	900	97	218,500	22,314	133,500	24,822
TOMCOD	139,300	983	-	-	-	-
TUNA:						
ALBACORE	376,900	98,753	900,500	241,322	3,112,800	856,010
SKIPJACK	-	-	-	-	500	66
TOTAL TUNA	376,900	98,753	900,500	241,322	3,113,300	856,076
TOTAL FISH	84,343,000	14,587,600	11,585,200	4,897,472	10,865,500	3,417,460
SHELLFISH ET AL.						
CRABS, DUNGENESS 1/	1,306,000	255,057	14,209,600	2,683,096	2,952,000	466,700
CRAWFISH, FRESH-WATER	29,200	9,828	-	-	2,000	753
SHRIMP:						
BAY	33,000	19,277	-	-	-	-
OCEAN	-	-	826,900	93,098	98,700	13,692
CLAMS:						
GEODUCK	20,600	13,404	-	-		
HARD: 2/					-	-
BUTTER	152,300	47,037	-	-	-	-
LITTLE NECK	154,000	90,826	2,300	1,399	-	-
MANILA	161,300	85,028	200	140	-	-
OTHER	7,700	1,104	-	-	-	-
RAZOR 3/	-	-	285,600	264,957	-	-
SOFT	9,400	11,650	-	-	-	-
TOTAL CLAMS	505,300	249,049	288,100	266,496	-	-

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

WASHINGTON - LANDINGS BY DISTRICTS, 1970 -Continued

SPECIES	PUGET SOUND		COASTAL		COLUMBIA RIVER	
SHELLFISH ET AL. - CONTINUED	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCTOPUS	18,000	2,909	-	-	-	-
OYSTERS, MARKET:						
PACIFIC 4/.	2,646,900	980,000	3,859,700	1,389,482	-	-
WESTERN 5/.	57,700	173,016	-	-	-	-
TOTAL OYSTERS . . .	2,704,600	1,153,016	3,859,700	1,389,482	-	-
SCALLOPS, SEA 6/.	10,600	10,550	-	-	-	-
SQUID	500	48	-	-	-	-
TOTAL SHELLFISH ET AL.	4,607,200	1,699,734	19,184,300	4,432,172	3,052,700	481,145
GRAND TOTAL	88,950,200	16,287,334	30,769,500	9,329,644	13,918,200	3,898,605

1/ CRABS AVERAGED 22.6 POUNDS PER DOZEN IN THE PUGET SOUND DISTRICT, 23.7 POUNDS PER DOZEN ON THE COAST, AND 23.8 POUNDS PER DOZEN IN THE COLUMBIA RIVER DISTRICT.

2/ BASED ON A YIELD OF 25 PERCENT MEATS.

3/ BASED ON A YIELD OF 42 PERCENT MEATS.

4/ BASED ON A YIELD OF 10 PERCENT MEATS IN THE PUGET SOUND DISTRICT AND 12 PERCENT MEATS IN THE COASTAL DISTRICT.

5/ BASED ON A YIELD OF 18 PERCENT MEATS.

6/ MOST OF THE SCALLOPS WERE CAUGHT OFF ALASKA AND LANDED AS SHUCKED MEATS. BASED ON A YIELD OF 17 PERCENT MEATS.

PUGET SOUND DISTRICT OF WASHINGTON
OPERATING UNITS, 1970

ITEM	HAUL SEINES, COMMON 1/	PURSE SEINES		BEAM TRAWLS, SHRIMP	OTTER TRAWLS, FISH	BRUSH WEIRS
		HERRING	SALMON			
	NUMBER					
FISHERMEN:						
ON VESSELS.	51	18	1,701	4	327	-
ON BOATS AND SHORE. . . .	160	12	-	2	-	4
TOTAL	211	30	1,701	6	327	4
VESSELS, MOTOR.	17	3	271	2	84	-
GROSS TONNAGE	271	152	10,179	35	6,397	-
BOATS:						
MOTOR	45	7	271	1	-	1
OTHER	20	4	-	-	-	-
GEAR:						
NUMBER.	82	7	271	3	84	1
LENGTH, YARDS	6,725	1,875	144,855	-	-	-
YARDS AT MOUTH.	-	-	-	24	1,842	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

PUGET SOUND DISTRICT OF WASHINGTON
OPERATING UNITS, 1970 - Continued

ITEM	POUND NETS, FISH 2/	POTS				
		CRAB	CRAWFISH	FISH	OCTOPUS	SHRIMP
	NUMBER					
FISHERMEN:						
ON VESSELS.	-	62	-	3	-	-
ON BOATS AND SHORE. . . .	5	60	30	-	[illegible]	[illegible]
TOTAL	[illegible]	122	30	3	[illegible]	[illegible]
VESSELS, MOTOR.	-	31	-	1	-	-
GROSS TONNAGE	-	573	-	81	-	-
BOATS:						
MOTOR	2	40	27	-	[illegible]	6
OTHER	-	2	3	-	-	-
GEAR, NUMBER.	2	5,800	1,500	60	200	250

ITEM	GILL NETS, SALMON		LINES			
			HAND		TROLL	
	ANCHOR, SET, OR STAKE 2/	DRIFT	ALBACORE	OTHER	SALMON	TUNA
	NUMBER					
FISHERMEN:						
ON VESSELS.	-	396	14	-	284	62
ON BOATS AND SHORE. . . .	200	780	-	21	480	2
TOTAL	200	1,176	14	21	764	64
VESSELS, MOTOR.	-	308	2	-	181	24
GROSS TONNAGE	-	3,469	232	-	2,809	877
BOATS:						
MOTOR	150	710	1	20	400	1
OTHER	25	-	-	1	-	-
GEAR:						
NUMBER.	175	1,018	13	42	2,350	250
SQUARE YARDS.	45,000	6,310,000	-	-	-	-
HOOKS OR BAITS.	-	-	13	84	9,900	250

ITEM	LINES - CONTINUED		DIP NETS, COMMON	REEF NETS	DREDGES	
	TROLL - CONTINUED	LONG OR SET WITH HOOKS			CLAM	OYSTER
	OTHER					COMMON
	NUMBER					
FISHERMEN:						
ON VESSELS.	20	315	12	-	6	9
ON BOATS AND SHORE. . . .	2	2	32	216	6	8
TOTAL	22	317	44	216	12	17
VESSELS, MOTOR.	20	55	4	-	3	4
GROSS TONNAGE	279	2,847	95	-	39	81
BOATS:						
MOTOR	2	1	15	-	3	4
OTHER	-	-	-	108	-	-
GEAR:						
NUMBER.	44	2,594	44	54	6	16
YARDS AT MOUTH.	-	-	-	-	6	32
HOOKS OR BAITS.	88	122,115	-	-	-	-

ITEM	DREDGES - CONTINUED		SHOVELS	DIVING OUTFITS	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	OYSTER - CONTINUED	SCALLOP				
	SUCTION					
	NUMBER					
FISHERMEN:						
ON VESSELS.	2	12	-	-	-	1,966
ON BOATS AND SHORE. . . .	-	3	220	6	125	3,320
TOTAL	2	15	220	6	125	5,286
VESSELS, MOTOR.	1	1	-	-	-	[illegible]
GROSS TONNAGE	41	168	-	-	-	[illegible],714
BOATS:						
MOTOR	-	1	-	3	25	1,687
OTHER	-	-	-	-	15	176
GEAR:						
NUMBER.	1	4	-	3	-	-
YARDS AT MOUTH.	-	12	-	-	-	-

1/ INCLUDES 10 HAUL SEINES OPERATED ON INDIAN RESERVATIONS.
2/ FISHED ON INDIAN RESERVATIONS.

PACIFIC COAST FISHERIES

PUGET SOUND DISTRICT OF WASHINGTON
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON 1/		PURSE SEINES			
			HERRING		SALMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	5,800	676	-	-	-	-
FLOUNDERS:						
"SOLE"	400	20	-	-	-	-
OTHER	1,300	67	-	-	-	-
HERRING, SEA	849,400	166,314	3,447,700	58,265	-	-
LINGCOD	-	-	-	-	300	26
PERCH	229,900	28,640	-	-	-	-
ROCKFISHES	2,500	250	-	-	-	-
SALMON:						
CHINOOK OR KING	43,000	26,580	-	-	1,024,400	581,650
CHUM OR KETA	21,900	4,536	-	-	929,300	241,765
PINK	-	-	-	-	3,500	633
RED OR SOCKEYE	-	-	-	-	5,006,900	2,193,000
SILVER OR COHO	12,000	4,941	-	-	2,686,900	1,088,200
SKATES	100	4	-	-	-	-
SMELT:						
EULACHON	600	219	-	-	-	-
SURF OR SILVER	43,400	6,420	-	-	-	-
TOTAL	1,210,300	238,667	3,447,700	58,265	9,651,300	4,105,274

SPECIES	BEAM TRAWLS, SHRIMP		OTTER TRAWLS, FISH		BRUSH WEIRS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	2,704,300	174,476	-	-
FLOUNDERS:						
"SOLE"	-	-	6,401,400	478,719	-	-
OTHER	-	-	368,700	20,465	-	-
HAKE	-	-	9,009,000	77,542	-	-
HERRING, SEA	-	-	-	-	46,200	9,875
LINGCOD	-	-	2,496,800	162,292	-	-
OCEAN PERCH	-	-	13,652,700	861,000	-	-
PERCH	-	-	2,100	191	-	-
POLLOCK	-	-	426,900	4,803	-	-
RATFISH	-	-	640,100	5,523	-	-
ROCKFISHES	-	-	12,248,800	739,158	-	-
SABLEFISH	-	-	321,500	24,735	-	-
SHARKS:						
GRAYFISH	-	-	474,500	2,835	-	-
OTHER	-	-	17,000	100	-	-
SKATES	-	-	207,600	1,620	-	-
STURGEON, COMMON	-	-	800	78	-	-
TOMCOD	-	-	139,300	983	-	-
SHRIMP, BAY	12,000	5,783	-	-	-	-
OCTOPUS	-	-	8,000	860	-	-
SQUID	-	-	500	48	-	-
TOTAL	12,000	5,783	49,120,000	2,555,428	46,200	9,875

SPECIES	POUND NETS, FISH 2/		POTS			
			CRAB		CRAWFISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:						
CHINOOK OR KING	17,700	10,553	-	-	-	-
CHUM OR KETA	4,700	1,418	-	-	-	-
RED OR SOCKEYE	200	63	-	-	-	-
SILVER OR COHO	53,100	20,700	-	-	-	-
CRABS, DUNGENESS 3/	-	-	1,306,000	255,057	-	-
CRAWFISH, FRESH-WATER	-	-	-	-	29,200	9,828
TOTAL	75,700	32,734	1,306,000	255,057	29,200	9,828

SPECIES	POTS - CONTINUED					
	FISH		OCTOPUS		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
LINGCOD	500	33	-	-	-	-
ROCKFISHES	400	39	-	-	-	-
SABLEFISH	358,900	50,825	-	-	-	-
SHRIMP, BAY	-	-	-	-	21,000	13,494
OCTOPUS	-	-	8,100	1,558	-	-
TOTAL	359,800	50,897	8,100	1,558	21,000	13,494

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PUGET SOUND DISTRICT OF WASHINGTON LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	GILL NETS, SALMON				LINES	
	ANCHOR, SET, OR STAKE 2/		DRIFT		HAND	
					ALBACORE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
LINGCOD	-	-	200	19	-	-
ROCKFISHES	-	-	1,200	108	-	-
SALMON:						
CHINOOK OR KING	519,200	228,400	1,119,000	709,600	-	-
CHUM OR KETA	356,900	62,140	981,700	251,400	-	-
PINK	300	50	5,000	1,020	-	-
RED OR SOCKEYE	30,800	13,250	3,206,700	1,391,700	-	-
SILVER OR COHO	913,300	275,350	4,632,100	1,885,700	-	-
STEELHEAD TROUT	10,000	4,500	-	-	-	-
STURGEON, COMMON	-	-	100	19	-	-
TUNA, ALBACORE	-	-	-	-	13,400	3,510
TOTAL	1,830,500	583,690	9,946,000	4,239,566	13,400	3,510

SPECIES	LINES - CONTINUED					
	HAND - CONTINUED		TROLL			
	OTHER		SALMON		TUNA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	300	17	-	-	-	-
HALIBUT	-	-	27,900	8,000	-	-
LINGCOD	21,400	2,500	198,900	21,094	-	-
ROCKFISHES	5,900	620	18,300	1,280	-	-
SABLEFISH	-	-	300	36	-	-
SALMON:						
CHINOOK OR KING	-	-	284,000	202,900	-	-
CHUM OR KETA	-	-	700	200	-	-
PINK	-	-	10,200	2,700	-	-
RED OR SOCKEYE	-	-	2,600	1,210	-	-
SILVER OR COHO	-	-	563,500	284,000	-	-
TUNA, ALBACORE	-	-	-	-	363,500	95,243
TOTAL	27,600	3,137	1,106,400	521,420	363,500	95,243

SPECIES	LINES - CONTINUED				DIP NETS, COMMON	
	TROLL - CONTINUED		LONG OR SET WITH HOOKS			
	OTHER					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	600	36	-	-
FLOUNDER, "SOLE"	-	-	100	11	-	-
HALIBUT	-	-	5,834,300	1,722,265	-	-
HERRING, SEA	-	-	-	-	74,900	15,646
LINGCOD	196,000	30,800	37,800	2,800	-	-
ROCKFISHES	3,000	300	103,800	6,536	-	-
SABLEFISH	-	-	276,500	39,635	-	-
SHARKS, GRAYFISH	-	-	4,000	20	-	-
SMELT, SURF OR SILVER	-	-	-	-	2,400	257
OCTOPUS	-	-	-	-	1,900	491
TOTAL	199,000	31,100	6,257,100	1,771,303	79,200	16,394

SPECIES	REEF NETS		DREDGES			
			CLAM		OYSTER AND BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:						
CHINOOK OR KING	36,500	21,824	-	-	-	-
CHUM OR KETA	9,300	2,715	-	-	-	-
PINK	100	21	-	-	-	-
RED OR SOCKEYE	424,900	185,905	-	-	-	-
SILVER OR COHO	148,900	62,031	-	-	-	-
CLAMS: 4/						
HARD:						
BUTTER	-	-	142,300	43,598	-	-
LITTLE NECK	-	-	57,200	33,045	-	-
HORSE	-	-	7,700	1,104	-	-
SOFT-SHELL	-	-	9,400	11,650	-	-
OYSTERS, MARKET: 5/						
PACIFIC	-	-	-	-	2,646,900	980,000
WESTERN	-	-	-	-	57,700	173,016
TOTAL	619,700	272,496	216,600	89,397	2,704,600	1,153,016

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PUGET SOUND DISTRICT OF WASHINGTON

LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	DREDGES - CONTINUED		SHOVELS		DIVING OUTFITS	
	SCALLOP					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CLAMS: 4/						
GEODUCK	-	-	-	-	20,600	13,404
HARD:	-	-				
BUTTER	-	-	10,000	3,439	-	-
LITTLE NECK	-	-	96,800	57,781	-	-
MANILA	-	-	161,300	85,028	-	-
SCALLOPS, SEA 6/	10,600	10,550	-	-	-	-
TOTAL	10,600	10,550	268,100	146,248	20,600	13,404

1/ THE SALMON CAUGHT BY HAUL SEINES WERE TAKEN ON INDIAN RESERVATIONS.

2/ FISHED ONLY ON INDIAN RESERVATIONS.

3/ BASED ON AN AVERAGE OF 21.7 POUNDS PER DOZEN.

4/ BASED ON A YIELD OF 25 PERCENT MEATS.

5/ BASED ON A YIELD OF 10 PERCENT MEATS FOR PACIFIC OYSTERS AND 18 PERCENT FOR WESTERN OR NATIVE OYSTERS.

6/ BASED ON A YIELD OF 17 PERCENT MEATS.

COASTAL DISTRICT OF WASHINGTON

OPERATING UNITS, 1970

ITEM	HAUL SEINES, COMMON 1/	OTTER TRAWLS		POTS, CRAB	GILL NETS, SALMON	
		FISH	SHRIMP		ANCHOR, SET, OR STAKE 2/	DRIFT
	NUMBER					
FISHERMEN:						
ON VESSELS	-	6	22	240	-	52
ON BOATS AND SHORE	125	-	-	36	140	290
TOTAL	125	6	22	276	140	342
VESSELS, MOTOR	-	2	7	92	-	37
GROSS TONNAGE	-	69	246	2,789	-	467
BOATS:						
MOTOR	34	-	-	19	105	263
OTHER	8	-	-	-	15	10
GEAR:						
NUMBER	34	2	7	27,500	120	310
LENGTH, YARDS	3,400	-	-	-	-	-
SQUARE YARDS	-	-	-	-	40,000	647,000
YARDS AT MOUTH	-	40	133	-	-	-

ITEM	LINES					
	HAND		TROLL			LONG OR SET WITH HOOKS
	ALBACORE	OTHER	SALMON	TUNA	OTHER	
	NUMBER					
FISHERMEN:						
ON VESSELS	33	-	787	201	6	-
ON BOATS AND SHORE	-	4	960	5	4	
TOTAL	33	4	1,747	206	10	4
VESSELS, MOTOR	7	-	482	98	6	-
GROSS TONNAGE	572	-	7,536	2,065	122	-
BOATS:						
MOTOR	2	2	800	3	4	4
OTHER	-	2	-	-	-	-
GEAR:						
NUMBER	32	4	5,450	910	20	8
HOOKS OR BAITS	32	4	23,500	910	40	800

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

COASTAL DISTRICT OF WASHINGTON
OPERATING UNITS, 1970 - Continued

ITEM	DIP NETS, COMMON 2/	DREDGES, OYSTER		SHOVELS 2/	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
		COMMON	SUCTION			
	NUMBER					
FISHERMEN:						
ON VESSELS	-	40	2	-	-	1,100
ON BOATS AND SHORE	25	4	-	280	120	1,957
TOTAL	25	44	2	280	120	3,057
VESSELS, MOTOR	-	18	1	-	-	596
GROSS TONNAGE	-	420	24	-	-	11,257
BOATS:						
MOTOR	9	2	-	-	10	1,230
OTHER	4	-	-	-	15	54
GEAR:						
NUMBER	25	40	1	280	-	-
YARDS AT MOUTH	-	80	-	-	-	-

1/ INCLUDES 8 HAUL SEINES OPERATED ON INDIAN RESERVATIONS AND 26 LAMPARA NETS USED FOR TUNA BAIT.

2/ OPERATED ON INDIAN RESERVATIONS.

COASTAL DISTRICT OF WASHINGTON
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	262,100	7,862	-	-	-	-
FLOUNDERS:						
"SOLE"	-	-	252,900	26,035	-	-
OTHER	-	-	27,400	1,379	-	-
LINGCOD	-	-	61,000	3,957	2,100	105
PERCH	300	12	-	-	-	-
ROCKFISHES	-	-	55,200	3,375	1,900	112
SABLEFISH	-	-	200	27	-	-
SMELT, SURF OR SILVER	157,600	16,848	-	-	-	-
STURGEON, COMMON	-	-	900	91	-	-
SHRIMP, OCEAN	-	-	-	-	826,900	93,098
TOTAL	420,000	24,722	397,600	34,864	830,900	93,315

SPECIES	POTS, CRAB		GILL NETS, SALMON			
			ANCHOR, SET, OR STAKE 1/		DRIFT	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDER, OTHER	-	-	-	-	100	5
LINGCOD	-	-	-	-	100	5
ROCKFISHES	-	-	-	-	700	35
SALMON:						
CHINOOK OR KING	-	-	367,800	179,760	732,200	410,489
CHUM OR KETA	-	-	12,400	2,573	578,900	109,187
PINK	-	-	100	19	-	-
RED OR SOCKEYE	-	-	26,200	13,775	-	-
SILVER OR COHO	-	-	326,200	98,000	1,166,300	395,759
SHAD	-	-	2,600	204	-	-
STEELHEAD TROUT	-	-	200,000	95,000	-	-
STURGEON, COMMON	-	-	200	25	211,600	20,986
CRABS, DUNGENESS 2/	14,209,600	2,683,096	-	-	-	-
TOTAL	14,209,600	2,683,096	935,500	389,356	2,689,900	936,466

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

COASTAL DISTRICT OF WASHINGTON
LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES					
	HAND				TROLL	
	ALBACORE		OTHER		SALMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDER, OTHER	-	-	-	-	100	6
HALIBUT	-	-	-	-	12,200	2,700
LINGCOD	-	-	-	-	117,200	6,242
PERCH	-	-	6,400	636	-	-
ROCKFISHES	-	-	-	-	165,500	7,621
SALMON:						
CHINOOK OR KING	-	-	-	-	1,919,700	1,312,100
CHUM OR KETA	-	-	-	-	1,900	440
PINK	-	-	-	-	25,200	5,138
RED OR SOCKEYE	-	-	-	-	300	159
SILVER OR COHO	-	-	-	-	3,921,100	1,926,398
TUNA, ALBACORE	125,000	33,500	-	-	-	-
TOTAL	125,000	33,500	6,400	636	6,163,200	3,260,804

SPECIES	LINES - CONTINUED					
	TROLL - CONTINUED				LONG OR SET WITH HOOKS	
	TUNA		OTHER			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
LINGCOD	-	-	40,000	5,000	-	-
STURGEON, COMMON	-	-	-	-	5,800	1,212
TUNA, ALBACORE	775,500	207,822	-	-	-	-
TOTAL	775,500	207,822	40,000	5,000	5,800	1,212

SPECIES	DIP NETS, COMMON 1/		DREDGES, OYSTER AND BY HAND		SHOVELS 1/	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
PERCH	4,800	388	-	-	-	-
SMELT, SURF OR SILVER	17,500	2,485	-	-	-	-
CLAMS:						
HARD: 3/						
LITTLE NECK	-	-	-	-	2,300	1,399
MANILA	-	-	-	-	200	140
RAZOR 4/	-	-	-	-	285,600	264,957
OYSTERS, MARKET, PACIFIC 5/	-	-	3,859,700	1,389,482	-	-
TOTAL	22,300	2,873	3,859,700	1,389,482	288,100	266,496

1/ FISHED ON INDIAN RESERVATIONS.

2/ CRABS AVERAGED 24.2 POUNDS PER DOZEN.

3/ BASED ON A YIELD OF 25 PERCENT MEATS.

4/ BASED ON A YIELD OF 42 PERCENT EDIBLE MEATS.

5/ BASED ON A YIELD OF 12 PERCENT MEATS.

COLUMBIA RIVER DISTRICT OF WASHINGTON
OPERATING UNITS, 1970

ITEM	HAUL SEINES, COMMON 1/	BEAM TRAWLS	OTTER TRAWLS, SHRIMP	POTS		GILL NETS	
				CRAB	CRAWFISH	ANCHOR, SET, OR STAKE 2/	DRIFT
							SALMON
	NUMBER						
FISHERMEN:							
ON VESSELS	-	4	15	66	-	-	[illegible]
ON BOATS AND SHORE	120	-	-	2	2	[illegible]	44
TOTAL	120	4	15	68	2	[illegible]	[illegible]
VESSELS, MOTOR	-	2	5	26	-	-	[illegible]
GROSS TONNAGE	-	39	154	702	-	-	140
BOATS:							
MOTOR	30	-	-	1	2	60	222
OTHER	15	-	-	-	-	10	-
GEAR:							
NUMBER	30	2	5	6,500	100	70	235
LENGTH, YARDS	3,000	-	-	-	-	-	-
SQUARE YARDS	-	-	-	-	-	30,000	723,000
YARDS AT MOUTH	-	10	95	-	-	-	-

ITEM	GILL NETS - CONTINUED	LINES - CONTINUED				DIP NETS, COMMON 3/	TOTAL, EXCLUSIVE OF DUPLICATION
	DRIFT - CONTINUED	HAND, ALBACORE	TROLL		LONG OR SET WITH HOOKS		
	SMELT		SALMON	TUNA			
	NUMBER						
FISHERMEN:							
ON VESSELS	-	86	278	267	5	-	546
ON BOATS AND SHORE	17	-	720	30	-	120	1,230
TOTAL	17	86	998	297	5	120	1,776
VESSELS, MOTOR	-	20	163	131	2	-	255
GROSS TONNAGE	-	895	2,449	2,486	45	-	5,083
BOATS:							
MOTOR	17	12	600	20	-	32	931
OTHER	-	-	-	-	-	5	30
GEAR:							
NUMBER	17	86	3,000	1,295	33	120	-
SQUARE YARDS	15,000	-	-	-	-	-	-
HOOKS OR BAITS	-	86	12,000	1,295	2,750	-	-

1/ INCLUDES 9 CARP SEINES AND 21 LAMPARA NETS USED FOR TUNA BAIT.

2/ OPERATED BY INDIANS.

3/ INCLUDES 44 DIP NETS OPERATED BY INDIANS.

COLUMBIA RIVER DISTRICT OF WASHINGTON
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		BEAM TRAWLS		OTTER TRAWLS, SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	174,700	5,242	-	-	-	-
CARP	695,400	3,980	-	-	-	-
SMELT, EULACHON	-	-	52,300	5,232	-	-
SHRIMP, OCEAN	-	-	-	-	98,700	13,692
TOTAL	870,100	9,222	52,300	5,232	98,700	13,692

SPECIES	POTS				GILL NETS	
	CRAB		CRAWFISH		ANCHOR, SET OR STAKE 1/	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:						
CHINOOK OR KING	-	-	-	-	698,300	217,850
RED OR SOCKEYE	-	-	-	-	10,100	4,070
SILVER OR COHO	-	-	-	-	93,400	26,690
SHAD	-	-	-	-	16,300	1,298
STEELHEAD TROUT	-	-	-	-	67,200	21,349
STURGEON, COMMON	-	-	-	-	12,200	2,501
CRABS, DUNGENESS 2/	2,952,000	466,700	-	-	-	-
CRAWFISH, FRESH-WATER	-	-	2,000	753	-	-
TOTAL	2,952,000	466,700	2,000	753	897,500	273,758

SPECIES	GILL NETS - CONTINUED				LINES	
	DRIFT				HAND, ALBACORE	
	SALMON		SMELT			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDER, OTHER	17,900	333	-	-	-	-
SALMON:						
CHINOOK OR KING	1,406,300	684,534	-	-	-	-
CHUM OR KETA	3,100	629	-	-	-	-
RED OR SOCKEYE	6,300	2,580	-	-	-	-
SILVER OR COHO	1,234,300	403,209	-	-	-	-
SHAD	7,100	614	-	-	-	-
SMELT, EULACHON	-	-	79,500	12,614	-	-
STEELHEAD TROUT	10,700	3,339	-	-	-	-
STURGEON, COMMON	121,200	22,316	-	-	-	-
TUNA:						
ALBACORE	-	-	-	-	1,541,300	423,845
SKIPJACK	-	-	-	-	500	66
TOTAL	2,806,900	1,117,554	79,500	12,614	1,541,800	423,911

SPECIES	LINES - CONTINUED			
	TROLL			
	SALMON		TUNA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
LINGCOD	4,200	188	-	-
ROCKFISHES	37,100	1,427	-	-
SALMON:				
CHINOOK OR KING	346,100	220,160	-	-
SILVER OR COHO	1,590,100	822,368	-	-
STURGEON, COMMON	100	5	-	-
TUNA, ALBACORE	-	-	1,571,500	432,165
TOTAL	1,977,600	1,044,148	1,571,500	432,165

SPECIES	LINES - CONTINUED		DIP NETS, COMMON	
	LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS
HALIBUT	100	35	-	-
SABLEFISH	800	101	-	-
SALMON:				
CHINOOK OR KING	-	-	43,600	16,475
SILVER OR COHO	-	-	41,700	11,495
SMELT, EULACHON	-	-	979,700	70,013
STEELHEAD TROUT	-	-	2,400	737
TOTAL	900	136	1,067,400	98,720

1/ FISHED ONLY ON INDIAN RESERVATIONS. 2/ CRABS AVERAGED 24 POUNDS PER DOZEN.

PACIFIC COAST FISHERIES

OREGON

LANDINGS BY DISTRICTS, 1970

SPECIES	COLUMBIA RIVER		COASTAL	
FISH	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	71,500	4,650	4,900	302
FLOUNDERS:				
"SOLE"	6,652,600	535,543	6,456,000	523,939
OTHER	664,700	26,651	71,300	3,740
HALIBUT	20,900	6,190	116,900	29,990
HERRING, SEA	-	-	47,900	9,600
LAMPREY	3,800	950	-	-
LINGCOD	641,800	41,500	511,200	38,675
OCEAN PERCH	1,184,200	75,790	428,400	26,345
PERCH	4,600	370	-	-
ROCKFISHES	2,229,000	132,915	2,032,800	111,667
SABLEFISH	50,900	2,685	223,200	20,610
SALMON:				
CHINOOK OR KING	4,617,700	2,056,075	1,693,800	1,223,900
CHUM OR KETA	4,900	980	-	-
PINK	300	65	-	-
RED OR SOCKEYE	40,700	16,293	-	-
SILVER OR COHO	5,193,500	1,669,737	7,891,000	4,024,415
TOTAL SALMON	9,857,100	3,743,150	9,584,800	5,248,315
SHAD	227,400	21,640	470,800	63,092
SHARKS, GRAYFISH	9,200	135	8,100	81
SKATES	28,900	795	67,500	1,858
SMELT:				
EULACHON	140,100	25,220	-	-
SURF OR SILVER	-	-	8,000	960
STEELHEAD TROUT	186,200	59,995	-	-
STRIPED BASS	-	-	50,100	7,515
STURGEON, COMMON	206,400	41,579	6,200	404
TOMCOD	20,000	550	2,400	66
TUNA:				
ALBACORE	18,749,000	5,155,975	3,048,700	800,280
SKIPJACK	409,000	64,700	-	-
YELLOWFIN	4,730,100	862,230	-	-
TOTAL TUNA	23,888,100	6,082,905	3,048,700	800,280
TOTAL FISH	46,087,400	10,803,213	23,139,200	6,887,439
SHELLFISH ET AL.				
CRABS, DUNGENESS 1/	3,809,300	666,635	11,120,000	2,646,560
CRAWFISH, FRESH-WATER	39,000	12,000	-	-
SHRIMP, OCEAN	2,609,500	313,150	10,962,700	1,480,000
CLAMS:				
RAZOR 2/	-	-	6,200	8,075
MIXED 3/	-	-	5,500	6,500
TOTAL CLAMS	-	-	11,700	14,575
OCTOPUS	-	-	3,100	305
OYSTERS, MARKET: 4/				
PACIFIC	-	-	306,000	134,725
WESTERN	-	-	1,000	3,250
TOTAL OYSTERS	-	-	307,000	137,975
TOTAL SHELLFISH ET AL.	6,457,800	991,785	22,404,500	4,279,415
GRAND TOTAL	52,545,200	11,794,998	45,543,700	11,166,854

1/ BASED ON AN AVERAGE OF 25 POUNDS PER DOZEN.

2/ BASED ON A YIELD OF 42 PERCENT MEATS.

3/ PRINCIPALLY EASTERN SOFT CLAMS. BASED ON A YIELD OF 21 PERCENT MEATS.

4/ BASED ON A YIELD OF 12 PERCENT MEATS FOR PACIFIC OYSTERS AND 18 PERCENT FOR WESTERN OR NATIVE OYSTERS.

COLUMBIA RIVER DISTRICT OF OREGON OPERATING UNITS, 1970

ITEM	PURSE SEINES, TUNA	OTTER TRAWLS		POTS		GILL NETS	
		FISH	SHRIMP	CRAB	CRAWFISH	ANCHOR, SET, OR STAKE 1/	DRIFT
							SALMON AND SHAD
	NUMBER						
FISHERMEN:							
ON VESSELS.	14	97	43	90	-	-	-
ON BOATS AND SHORE. . . .	-	-	-	20	35	75	490
TOTAL	14	97	43	110	35	75	490
VESSELS, MOTOR.	1	25	12	38	-	-	-
GROSS TONNAGE	864	1,603	661	729	-	-	-
BOATS:							
MOTOR	1	-	-	10	25	60	447
OTHER	-	-	-	-	5	5	-
GEAR:							
NUMBER.	1	25	14	10,400	1,500	65	447
LENGTH, YARDS	1,200	-	-	-	-	-	-
SQUARE YARDS.	-	-	-	-	-	26,000	1,365,000
YARDS AT MOUTH.	-	560	266	-	-	-	-

ITEM	GILL NETS - CONTINUED	LINES				DIP NETS, COMMON 1/	TOTAL, EXCLUSIVE OF DUPLICATION
	DRIFT - CONTINUED	HAND, TUNA	TROLL		LONG OR SET WITH HOOKS		
	SMELT		SALMON	TUNA			
	NUMBER						
FISHERMEN:							
ON VESSELS.	-	313	315	1,089	7	-	1,624
ON BOATS AND SHORE. . . .	24	-	90	8	-	15	707
TOTAL	24	313	405	1,097	7	15	2,331
VESSELS, MOTOR.	-	47	166	447	2	-	590
GROSS TONNAGE	-	5,264	3,353	13,092	64	-	21,310
BOATS:							
MOTOR	24	37	75	5	-	-	649
OTHER	-	-	-	-	-	-	10
GEAR:							
NUMBER.	24	304	1,200	4,280	60	15	-
SQUARE YARDS.	21,500	-	-	-	-	-	-
HOOKS OR BAITS.	-	304	5,700	4,280	5,580	-	-

1/ FISHED ON INDIAN RESERVATIONS.

COLUMBIA RIVER DISTRICT OF OREGON LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES, TUNA		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	71,500	4,650	-	-
FLOUNDERS:						
"SOLE".	-	-	6,562,900	531,823	89,700	3,720
OTHER	-	-	500,500	23,366	-	-
LINGCOD	-	-	615,400	40,000	9,900	644
OCEAN PERCH	-	-	1,174,300	75,156	9,900	634
PERCH	-	-	4,600	370	-	-
ROCKFISHES.	-	-	2,137,500	127,486	88,200	5,290
SABLEFISH	-	-	48,800	2,505	2,100	180
SHARKS, GRAYFISH.	-	-	9,200	135	-	-
SKATES.	-	-	28,900	795	-	-
STURGEON, COMMON.	-	-	4,200	342	-	-
TOMCOD.	-	-	20,000	550	-	-
TUNA:						
SKIPJACK.	409,000	64,700	-	-	-	-
YELLOWFIN	4,730,100	862,230	-	-	-	-
SHRIMP, OCEAN	-	-	-	-	2,609,500	313,150
TOTAL	5,139,100	926,930	11,177,800	807,178	2,809,300	323,618

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

PACIFIC COAST FISHERIES

COLUMBIA RIVER DISTRICT OF OREGON
LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	POTS				GILL NETS	
	CRAB		CRAWFISH		ANCHOR, SET, OR STAKE 1/	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SALMON:						
CHINOOK OR KING	-	-	-	-	259,500	103,790
RED OR SOCKEYE	-	-	-	-	4,200	1,690
SILVER OR COHO	-	-	-	-	43,700	12,670
SHAD	-	-	-	-	6,100	610
STEELHEAD TROUT	-	-	-	-	49,100	14,750
STURGEON, COMMON	-	-	-	-	5,500	1,212
CRABS, DUNGENESS	3,809,300	666,635	-	-	-	-
CRAWFISH, FRESH-WATER	-	-	39,000	12,000	-	-
TOTAL	3,809,300	666,635	39,000	12,000	368,100	134,722

SPECIES	GILL NETS - CONTINUED				LINES	
	DRIFT				HAND, TUNA	
	SALMON AND SHAD		SMELT			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDER, OTHER	164,200	3,285	-	-	-	-
SALMON:						
CHINOOK AND KING	4,107,400	1,807,275	-	-	-	-
CHUM OR KETA	4,900	980	-	-	-	-
RED OR SOCKEYE	36,300	14,523	-	-	-	-
SILVER OR COHO	4,373,700	1,268,382	-	-	-	-
SHAD	221,000	20,994	-	-	-	-
SMELT, EULACHON	-	-	140,100	25,220	-	-
STEELHEAD TROUT	136,400	45,025	-	-	-	-
STURGEON, COMMON	196,700	40,025	-	-	-	-
TUNA, ALBACORE	-	-	-	-	5,861,300	1,611,870
TOTAL	9,240,600	3,200,489	140,100	25,220	5,861,300	1,611,870

SPECIES	LINES - CONTINUED			
	TROLL			
	SALMON		TUNA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
HALIBUT	1,300	300	-	-
LINGCOD	15,000	750	-	-
ROCKFISHES	3,000	120	-	-
SALMON:				
CHINOOK OR KING	244,000	142,500	-	-
PINK	300	65	-	-
SILVER OR COHO	775,500	388,525	-	-
TUNA, ALBACORE	-	-	12,887,700	3,544,105
TOTAL	1,039,100	532,260	12,887,700	3,544,105

SPECIES	LINES - CONTINUED		DIP NETS, COMMON	
	LONG OR SET WITH HOOKS			
	POUNDS	DOLLARS	POUNDS	DOLLARS
HALIBUT	19,600	5,890	-	-
LAMPREY	-	-	3,800	950
LINGCOD	1,500	106	-	-
ROCKFISHES	300	19	-	-
SALMON:				
CHINOOK OR KING	-	-	6,800	[illegible]
RED OR SOCKEYE	-	-	[illegible]	[illegible]
SILVER OR COHO	-	-	600	160
SHAD	-	-	[illegible]	[illegible]
STEELHEAD TROUT	-	-	700	[illegible]
TOTAL	21,400	6,015	[illegible]	[illegible]

1/ FISHED ONLY ON INDIAN RESERVATIONS.

NOTE:--THE FOLLOWING SPECIES LANDED IN THE COLUMBIA RIVER DISTRICT WERE CAUGHT OFF THE COAST: COD, "SOLE", HALIBUT, LINGCOD, PERCH, OCEAN PERCH, ROCKFISHES, SABLEFISH, SHARKS, SKATES, TUNA, CRAB, SHRIMP, FLOUNDERS,AND STURGEON CAUGHT BY OTTER TRAWLS, AND MOST OF THE SALMON CAUGHT BY TROLLERS. SKIPJACK AND YELLOWFIN TUNA WERE TAKEN IN TROPICAL WATERS.

PACIFIC COAST FISHERIES

COASTAL DISTRICT OF OREGON
OPERATING UNITS, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS, CRAB	GILL NETS
		FISH	SHRIMP		ANCHOR, SET, OR STAKE
	NUMBER				
FISHERMEN:					
ON VESSELS	-	119	167	307	-
ON BOATS AND SHORE	9	-	-	53	38
TOTAL	9	119	167	360	38
VESSELS, MOTOR	-	34	52	125	-
GROSS TONNAGE	-	1,702	2,215	2,968	-
BOATS:					
MOTOR	3	-	-	35	33
OTHER	-	-	-	-	3
GEAR:					
NUMBER	3	34	54	38,600	129
LENGTH, YARDS	300	-	-	-	-
SQUARE YARDS	-	-	-	-	32,000
YARDS AT MOUTH	-	782	1,023	-	-

ITEM	GILL NETS - CONTINUED	LINES			
	DRIFT, SHAD	HAND, ALBACORE	TROLL		
			SALMON	TUNA	OTHER
	NUMBER				
FISHERMEN:					
ON VESSELS	-	23	1,227	604	5
ON BOATS AND SHORE	45	-	1,025	160	5
TOTAL	45	23	2,252	764	10
VESSELS, MOTOR	-	4	664	271	[illegible]
GROSS TONNAGE	-	371	12,019	6,160	71
BOATS, MOTOR	43	3	925	115	[illegible]
GEAR:					
NUMBER	43	23	7,000	3,200	20
SQUARE YARDS	86,000	-	-	-	-
HOOKS OR BAITS	-	23	30,500	3,200	40

ITEM	LINES - CONTINUED	DREDGES, OYSTER, COMMON	SHOVELS	BY HAND, OYSTER	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS				
	NUMBER				
FISHERMEN:					
ON VESSELS	19	5	-	-	1,675
ON BOATS AND SHORE	-	-	75	24	1,264
TOTAL	19	5	75	24	2,939
VESSELS, MOTOR	7	2	-	-	794
GROSS TONNAGE	167	35	-	-	17,255
BOATS:					
MOTOR	-	-	-	4	1,036
OTHER	-	-	-	2	5
GEAR:					
NUMBER	90	4	75	-	-
YARDS AT MOUTH	-	8	-	-	-
HOOKS OR BAITS	8,770	-	-	-	-

PACIFIC COAST FISHERIES

COASTAL DISTRICT OF OREGON
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS			
			FISH		SHRIMP	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
COD	-	-	4,900	302	-	-
FLOUNDERS:						
"SOLE".	-	-	6,387,400	518,391	67,600	5,428
OTHER	-	-	71,200	3,735	100	5
HERRING, SEA.	47,900	9,600	-	-	-	
LINGCOD	-	-	328,300	20,350	25,600	1,587
OCEAN PERCH	-	-	421,200	25,903	7,200	442
ROCKFISHES.	-	-	1,450,400	79,637	423,900	23,315
SABLEFISH	-	-	161,300	12,720	13,600	1,145
SHARKS, GRAYFISH.	-	-	8,100	81	-	-
SKATES.	-	-	67,300	1,852	200	6
SMELT, SURF OR SILVER . . .	8,000	960	-	-		
STURGEON, COMMON.	-	-	6,200	404	-	-
TOMCOD.	-	-	2,400	66	-	-
SHRIMP, OCEAN	-	-	-	-	10,962,700	1,480,000
OCTOPUS	-	-	3,100	305	-	-
TOTAL	55,900	10,560	8,911,800	663,746	11,500,900	1,511,928

SPECIES	POTS, CRAB		GILL NETS			
			ANCHOR, SET, OR STAKE		DRIFT, SHAD	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SHAD.	-	-	150,000	20,100	320,800	42,992
STRIPED BASS.	-	-	25,000	3,750	25,100	3,765
CRABS, DUNGENESS 1/	11,120,000	2,646,560	-	-	-	-
TOTAL	11,120,000	2,646,560	175,000	23,850	345,900	46,757

SPECIES	LINES					
	HAND, ALBACORE		TROLL			
			SALMON		TUNA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS, "SOLE"	-	-	300	36	-	-
HALIBUT	-	-	54,800	13,190	-	-
LINGCOD	-	-	120,000	12,000	-	-
ROCKFISHES.	-	-	141,000	7,750	-	-
SABLEFISH	-	-	300	28	-	-
SALMON:						
CHINOOK OR KING	-	-	1,693,800	1,223,900	-	-
SILVER OR COHO.	-	-	7,891,000	4,024,415	-	-
TUNA, ALBACORE.	4,100	1,076	-	-	3,044,600	799,204
TOTAL	4,100	1,076	9,901,200	5,281,319	3,044,600	799,204

SPECIES	LINES - CONTINUED				DREDGES, OYSTER AND BY HAND		SHOVELS	
	TROLL		LONG OR SET WITH HOOKS					
	OTHER							
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS, "SOLE"	-	-	700	64	-	-	-	-
HALIBUT	-	-	62,100	16,800	-	-	-	-
LINGCOD	35,000	4,500	2,300	238	-	-	-	-
ROCKFISHES.	2,400	135	15,100	830	-	-	-	-
SABLEFISH	-	-	48,000	6,717	-	-	-	-
CLAMS:								
RAZOR 2/.	-	-	-	-	-	-	5,200	8,075
MIXED 3/.	-	-	-	-	-	-	6,500	6,500
OYSTERS, MARKET: 4/								
PACIFIC	-	-	-	-	306,000	134,725	-	-
WESTERN	-	-	-	-	1,000	3,250	-	-
TOTAL	37,400	4,635	128,200	24,669	307,000	137,975	11,700	14,575

1/ CRAB CONVERSIONS ARE BASED ON AN AVERAGE OF 25 POUNDS PER DOZEN.

2/ BASED ON A YIELD OF 42 PERCENT MEATS.

3/ PRINCIPALLY EASTERN SOFT CLAMS. BASED ON A YIELD OF 21 PERCENT MEATS.

4/ OYSTER MEATS. BASED ON A YIELD OF 12 PERCENT MEATS FOR PACIFIC OYSTERS AND 18 PERCENT FOR WESTERN OR NATIVE OYSTERS.

PACIFIC COAST FISHERIES

CALIFORNIA

LANDINGS BY DISTRICTS, 1970

SPECIES	NORTHERN		SAN FRANCISCO		MONTEREY	
FISH	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	-	-	217,700	21,772	1,907,500	33,391
BONITO	300	32	1,600	165	73,400	3,820
CABEZONE	-	-	200	18	7,400	406
CARP	-	-	385,600	26,918	-	-
FLOUNDERS:						
ARROWTOOTH HALIBUT	3,600	222	2,500	107	-	-
CALIFORNIA HALIBUT	200	110	81,600	22,154	10,400	3,099
SAND DABS	370,000	40,649	195,800	20,324	110,600	8,943
"SOLE":						
DOVER	13,979,100	1,148,086	1,108,600	80,484	42,400	2,583
ENGLISH	1,650,300	168,979	876,800	87,765	364,100	34,300
PETRALE	1,967,400	309,126	911,500	137,651	265,500	42,815
REX	1,366,400	150,676	232,900	25,652	78,900	6,815
SAND	53,500	5,903	114,300	14,153	10,800	1,358
UNCLASSIFIED	-	-	500	57	11,800	1,294
OTHER	102,300	5,741	128,000	8,948	36,900	2,938
HAKE	-	-	5,400	108	2,900	57
HERRING, SEA	-	-	29,400	9,049	286,600	27,702
JACK MACKEREL	-	-	1,600	81	514,700	[illegible]
KING CROAKER	-	-	6,600	883	197,900	[illegible]
LINGCOD	917,600	87,762	336,500	27,286	179,300	[illegible]
PERCH	65,400	13,584	41,900	14,056	12,400	[illegible]
POMPANO	-	-	-	-	[illegible]	[illegible]
ROCKFISHES	3,917,000	241,586	770,400	56,833	2,875,200	[illegible]
SABLEFISH	2,859,200	217,872	347,800	18,499	1,220,100	[illegible]
SALMON:						
CHINOOK OR KING	2,800,300	2,318,521	1,744,900	1,460,215	523,000	[illegible]
SILVER OR COHO	1,147,100	573,600	167,600	88,881	20,000	[illegible]
TOTAL SALMON	3,947,400	2,892,121	1,912,500	1,549,096	543,000	[illegible]
SEA BASS, WHITE	-	-	-	-	[illegible]	[illegible]
SHARKS, UNCLASSIFIED	600	44	46,900	2,128	[illegible]	[illegible]
SKATES	54,500	1	17,200	230	[illegible]	[illegible]
SMELT	396,500	33,458	77,400	9,364	[illegible]	[illegible]
SWORDFISH	-	-	-	-	[illegible]	[illegible]
TUNA, ALBACORE	7,067,900	1,787,074	4,310,700	1,113,206	[illegible]	[illegible]
TURBOT	1,900	177	8,700	444	-	-
WHITEBAIT	218,500	26,828	31,300	4,220	-	-
UNCLASSIFIED:						
FOR FOOD	1,500	60	412,900	123,286	-	-
FOR BAIT AND ANIMAL FOOD	527,900	10,558	27,000	540	21,800	455
TOTAL FISH	39,469,000	7,140,649	12,641,800	3,375,477	13,369,300	2,189,950
SHELLFISH ET AL.						
CRABS:						
DUNGENESS	14,547,300	3,644,924	865,600	299,668	1,300	[illegible]
ROCK	-	-	-	-	1,400	[illegible]
TOTAL CRABS	14,547,300	3,644,924	865,600	299,668	2,700	[illegible]
SHRIMP, OCEAN	3,682,100	515,498	301,000	42,935	11,600	[illegible]
ABALONE 1/	-	-	6,100	12,149	-	-
OCTOPUS	1,700	34	1,400	63	800	[illegible]
OYSTERS, MARKET:						
EASTERN 2/	-	-	16,700	49,230	-	-
PACIFIC 3/	663,500	597,109	219,300	197,368	-	-
TOTAL OYSTERS	663,500	597,109	236,000	246,598	-	-
SQUID	-	-	-	-	8,627,100	346,527
SHELLFISH, UNCLASSIFIED	-	-	106,700	41,850	700	16
TOTAL SHELLFISH ET AL.	18,894,600	4,757,565	1,516,800	643,263	8,642,900	358,343
WHALE PRODUCTS						
MEAT	-	-	483,000	48,297	-	-
MEAL	-	-	663,000	44,212	-	-
OIL:						
SPERM	-	-	601,700	39,888	-	-
WHALE	-	-	77,500	6,131	-	-
TOTAL WHALE PRODUCTS	-	-	1,825,200	138,528	-	-
GRAND TOTAL	58,363,600	11,898,214	15,983,800	4,157,268	22,012,200	2,548,293

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

CALIFORNIA - LANDINGS BY DISTRICTS, 1970 - Continued

SPECIES	SANTA BARBARA		SAN PEDRO		SAN DIEGO	
FISH	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	19,614,300	224,597	170,745,600	1,877,424	-	-
BARRACUDA	600	166	17,000	4,737	7,000	2,023
BONITO	636,400	41,653	8,178,300	584,008	302,300	21,677
CABEZONE	2,900	173	200	16	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	77,400	[illegible]	70,800	27,934	17,000	6,978
SAND DABS	1,500	174	500	102	100	69
"SOLE":						
DOVER	30,800	1,544	-	-	-	-
ENGLISH	391,000	[illegible]	100	12	-	-
PETRALE	271,300	[illegible]	-	-	-	-
REX	63,300	[illegible]	-	-	-	-
SAND	14,700	[illegible]	-	-	-	-
UNCLASSIFIED	6,800	[illegible]	300	37	400	116
OTHER	10,400	[illegible]	-	-	200	26
FLYING FISH	-	-	76,300	11,262	2,300	367
GROUPERS	-	-	5,500	1,393	1,600	393
HAKE	1,500	30	-	-	-	-
HALFMOON	-	-	14,800	3,170	23,800	5,331
JACK MACKEREL	3,383,400	128,899	43,846,100	1,728,106	700	32
KING CROAKER	3,800	204	351,800	32,283	4,800	540
LINGCOD	96,900	8,523	600	113	500	78
MACKEREL, PACIFIC	800	43	618,000	49,090	3,100	424
OPALEYE	-	-	20,400	3,132	2,100	401
PERCH	22,600	6,634	88,400	4,424	10,700	1,847
POMPANO	3,900	600	117,700	36,018	-	-
ROCKFISHES	2,457,200	171,390	414,800	81,530	252,200	48,926
SAILFISH	-	-	-	-	1,000	111
SALMON:						
CHINOOK OR KING	201,000	[illegible]	-	-	-	-
SILVER OR COHO	7,600	[illegible]	-	-	-	-
TOTAL SALMON	208,600	[illegible]	-	-	-	-
SARDINE, PACIFIC	-	-	267,900	57,705	174,400	43,596
SCULPIN	-	-	1,700	668	153,300	45,770
SEA BASS:						
BLACK	700	102	98,000	22,223	30,800	7,360
WHITE	51,300	19,245	820,000	286,889	218,100	75,639
SHARKS, UNCLASSIFIED	109,700	12,973	104,200	14,849	134,000	21,891
SHEEPSHEAD	500	48	1,200	118	2,100	261
SKATES	1,600	128	100	3	-	-
SMELT	-	-	77,900	4,062	-	-
SWORDFISH	122,300	64,157	667,800	384,458	153,600	84,833
TUNA:						
ALBACORE	5,203,100	1,362,116	5,693,800	1,568,385	3,147,600	840,624
BLUEFIN	-	-	6,418,400	1,200,029	2,236,900	395,762
SKIPJACK	1,500	210	55,982,600	8,793,770	20,496,500	3,289,329
YELLOWFIN	-	-	188,700,900	34,153,795	43,274,200	7,736,816
TOTAL TUNA	5,204,600	1,362,326	256,795,700	45,715,979	69,155,200	12,262,531
TURBOT	17,500	1,223	-	-	-	-
WHITEFISH	-	-	600	51	1,200	183
YELLOWTAIL	100	10	143,200	20,329	40,900	4,459
UNCLASSIFIED:						
FOR FOOD	300	18	800	154	900	153
FOR BAIT AND ANIMAL FOOD	501,200	10,019	1,208,600	40,723	1,400	181
TOTAL FISH	33,309,900	2,356,413	484,754,900	50,993,002	70,695,700	12,636,196
SHELLFISH ET AL.						
CRABS:						
DUNGENESS	1,100	566	-	-	-	-
ROCK	207,500	16,999	317,500	41,574	11,500	1,078
TOTAL CRABS	208,600	17,565	317,500	41,574	11,500	1,078
LOBSTER, SPINY	85,900	104,925	79,600	93,471	59,900	69,924
SHRIMP, OCEAN	77,400	15,182	-	-	-	-
ABALONE 1/	275,000	470,471	203,200	331,060	95,800	133,836
OYSTERS, MARKET, PACIFIC 3/	219,900	197,988	-	-	-	-
[illegible]	4,878,300	70,561	11,085,300	249,584	200	20
SHELLFISH, UNCLASSIFIED	1,500	5,581	-	-	-	-
TOTAL SHELLFISH ET AL.	5,746,600	882,273	11,685,600	715,689	167,400	204,858
GRAND TOTAL	39,056,500	3,238,686	496,440,500	51,708,691	70,863,100	12,841,054

1/ BASED ON A YIELD OF 20 PERCENT MEATS. 2/ BASED ON A YIELD OF 14 PERCENT MEATS. 3/ BASED ON A YIELD OF 12 PERCENT MEATS.

CALIFORNIA - LANDINGS BY WATERS, 1970

SPECIES	OFF UNITED STATES		OFF LATIN AMERICA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	192,485,100	2,157,184	-	-
BARRACUDA	22,500	6,336	2,100	590
BONITO	8,793,800	615,566	398,500	35,789
CABEZONE	10,700	613	-	-
CARP	385,600	26,918	-	-
FLOUNDERS:				
ARROWTOOTH HALIBUT	6,100	329	-	-
CALIFORNIA HALIBUT	256,900	91,038	[illegible]	[illegible]
SAND DABS	678,400	70,271	[illegible]	[illegible]
"SOLE":				
DOVER	15,160,900	1,232,997	-	-
ENGLISH	3,282,300	323,698	-	-
PETRALE	3,415,700	531,015	-	-
REX	1,741,500	189,802	-	-
SAND	193,300	23,171	-	-
UNCLASSIFIED	19,800	2,207	-	-
OTHER	277,800	18,595	-	-
FLYING FISH	78,600	11,629	-	-
GROUPERS	-	-	7,100	[illegible]
HAKE	9,800	195	-	-
HALFMOON	38,600	8,501	-	-
HERRING, SEA	316,000	36,751	-	-
JACK MACKEREL	47,746,500	1,881,088	-	-
KING CROAKER	564,900	44,561	-	-
LINGCOD	1,531,400	138,691	-	-
MACKEREL, PACIFIC	621,300	49,509	[illegible]	48
OPALEYE	22,500	3,533	-	-
PERCH	241,000	42,913	[illegible]	[illegible]
POMPANO	131,400	41,362	-	-
ROCKFISHES	10,638,800	820,251	48,000	4,283
SABLEFISH	4,428,100	319,250	-	-
SALMON:				
CHINOOK OR KING	5,269,200	4,424,216	-	-
SILVER OR COHO	1,342,300	676,937	-	-
SARDINE, PACIFIC	442,300	101,301	-	-
SCULPIN	76,300	22,828	78,700	[illegible]
SEA BASS:				
BLACK	11,900	2,731	117,600	[illegible]
WHITE	426,300	149,879	675,100	[illegible]
SHARKS, UNCLASSIFIED	386,600	49,020	33,700	4,300
SHEEPSHEAD	3,500	394	300	33
SKATES	103,000	954	-	-
SMELT	561,600	48,061	-	-
SWORDFISH	928,100	524,662	16,600	9,384
TUNA:				
ALBACORE	27,420,300	7,186,834	2,511,400	658,795
BLUEFIN	262,200	51,461	8,393,100	1,544,330
SKIPJACK	379,300	59,170	76,101,300	12,024,139
YELLOWFIN	114,900	20,739	[illegible]	41,869,872
TURBOT	28,100	1,844	-	-
WHITEBAIT	249,800	31,048	-	-
WHITEFISH	1,000	130	800	104
YELLOWTAIL	56,300	7,578	127,900	17,220
UNCLASSIFIED:				
FOR FOOD	414,800	123,516	1,600	155
FOR BAIT AND ANIMAL FOOD	2,287,900	62,476	-	-
CRABS:				
DUNGENESS	15,415,300	3,945,691	-	-
ROCK	537,900	59,722	-	-
LOBSTERS, SPINY	225,400	268,320	-	-
SHRIMP, OCEAN	4,072,100	584,713	-	-
ABALONE	580,100	947,516	-	-
OCTOPUS	3,900	195	-	-
OYSTERS, MARKET:				
EASTERN	16,700	49,230	-	-
PACIFIC	1,102,700	992,465	-	-
SQUID	24,590,900	666,692	-	-
SHELLFISH, UNCLASSIFIED	108,900	47,447	-	-
WHALE PRODUCTS:				
MEAT	483,000	48,297	-	-
MEAL	663,000	44,212	-	-
OIL:				
SPERM	601,700	39,888	-	-
WHALE	77,500	6,131	-	-
TOTAL	382,344,100	29,934,272	320,375,600	56,457,934

NORTHERN DISTRICT OF CALIFORNIA - OPERATING UNITS, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS		POTS AND TRAPS	
		FISH	SHRIMP	CRAB	OCTOPUS
	NUMBER				
FISHERMEN:					
ON VESSELS	-	165	60	358	11
ON BOATS AND SHORE, REGULAR	9	-	-	48	2
TOTAL	9	165	60	406	13
VESSELS, MOTOR	-	55	20	179	11
GROSS TONNAGE	-	2,522	784	4,162	310
BOATS, MOTOR	3	-	-	24	2
GEAR:					
NUMBER	3	55	20	26,390	78
LENGTH, YARDS	1,200	1,485	540	-	-

ITEM	LINES					
	HAND			TROLL		
	ALBACORE	ROCKFISH	OTHER	SALMON	ALBACORE	OTHER
	NUMBER					
FISHERMEN:						
ON VESSELS	108	2	39	1,090	652	420
ON BOATS AND SHORE, REGULAR	-	-	63	1,196	18	543
TOTAL	108	2	102	2,286	670	963
VESSELS, MOTOR	12	1	13	545	326	140
GROSS TONNAGE	452	24	249	9,599	10,061	2,004
BOATS, MOTOR	-	-	21	598	9	181
GEAR:						
NUMBER	108	5	238	5,715	2,680	2,889
HOOKS OR BAITS	108	10	476	28,575	8,040	2,889

ITEM	LINES-CONTINUED	DREDGES, OYSTER, COMMON	TONGS, OYSTER	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS				
	NUMBER				
FISHERMEN:					
ON VESSELS	6	-	-	-	1,967
ON BOATS AND SHORE, REGULAR	-	8	18	12	1,459
TOTAL	6	8	18	12	3,426
VESSELS, MOTOR	3	-	-	-	830
GROSS TONNAGE	108	-	-	-	19,837
BOATS, MOTOR	-	4	9	6	624
GEAR:					
NUMBER	60	4	18	-	-
HOOKS OR BAITS	13,200	-	-	-	-

NORTHERN DISTRICT OF CALIFORNIA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
FLOUNDERS:						
ARROWTOOTH HALIBUT	-	-	3,700	222	-	-
SAND DABS	-	-	370,000	40,649	-	-
"SOLE":						
DOVER	-	-	13,963,400	1,146,395	-	-
ENGLISH	-	-	1,649,900	168,939	-	-
PETRALE	-	-	1,966,600	309,006	-	-
REX	-	-	1,366,100	150,639	-	-
SAND	-	-	53,500	5,903	-	-
OTHER	-	-	102,300	5,741	-	-
LINGCOD	-	-	762,000	72,980	-	-
PERCH	65,400	13,584	-	-	-	-
ROCKFISHES	-	-	3,646,900	218,814	-	-
SABLEFISH	-	-	2,284,400	174,071	-	-
SALMON:						
CHINOOK OR KING	-	-	3,000	2,636	-	-
SILVER OR COHO	-	-	1,900	1,000	-	-
SHARKS, UNCLASSIFIED	-	-	600	44	-	-
SMELT	396,500	33,458	-	-	-	-
TURBOT	-	-	1,900	177	-	-
WHITEBAIT	218,500	26,828	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	1,200	48	-	-
FOR BAIT AND ANIMAL FOOD	-	-	527,900	10,558	-	-
CRABS, DUNGENESS	-	-	13,600	3,739	14,533,700	3,641,185
SHRIMP, OCEAN	-	-	3,682,100	515,498	-	-
OCTOPUS	-	-	500	10	1,200	24
TOTAL	680,400	73,870	30,401,500	2,827,069	14,534,900	3,641,209

SPECIES	LINES		DREDGES		TONGS AND BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BONITO	300	32	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	200	110	-	-	-	-
"SOLE":						
DOVER	15,700	1,691	-	-	-	-
ENGLISH	400	40	-	-	-	-
PETRALE	800	120	-	-	-	-
REX	300	37	-	-	-	-
LINGCOD	155,600	14,782	-	-	-	-
ROCKFISHES	270,100	22,772	-	-	-	-
SABLEFISH	574,800	43,801	-	-	-	-
SALMON:						
CHINOOK OR KING	2,797,300	2,315,885	-	-	-	-
SILVER OR COHO	1,145,200	572,600	-	-	-	-
SKATES	1/ 54,400	1/ 1	-	-	-	-
TUNA, ALBACORE	7,067,900	1,787,074	-	-	-	-
UNCLASSIFIED, FOR FOOD	300	12	-	-	-	-
OYSTERS, MARKET, PACIFIC	-	-	617,500	555,750	46,000	41,359
TOTAL	12,083,300	4,758,957	617,500	555,750	46,000	41,359

1/ INCLUDES STINGRAYS.

PACIFIC COAST FISHERIES

SAN FRANCISCO DISTRICT OF CALIFORNIA
OPERATING UNITS, 1970

ITEM	HAUL LINES, COMMON	PURSE SEINES	LAMPARA NETS	OTTER TRAWLS	
				FISH	SHRIMP
	NUMBER				
FISHERMEN:					
ON VESSELS	3	-	7	72	9
ON BOATS AND SHORE, REGULAR	3	9	-	6	-
TOTAL	6	9	7	78	9
VESSELS, MOTOR	1	-	1	24	3
GROSS TONNAGE	32	-	13	1,049	93
BOATS, MOTOR	3	6	-	2	-
GEAR:					
NUMBER	2	3	1	26	3
LENGTH, YARDS	800	933	595	-	-
YARDS AT MOUTH	-	-	-	702	81

ITEM	POTS AND TRAPS			GILL NETS, DRIFT	TRAMMEL NETS
	CRAB	CRAWFISH	FISH		
	NUMBER				
FISHERMEN:					
ON VESSELS	162	-	3	-	6
ON BOATS AND SHORE, REGULAR	22	18	1	3	3
TOTAL	184	18	4	3	9
VESSELS, MOTOR	81	-	3	-	2
GROSS TONNAGE	1,575	-	37	-	19
BOATS, MOTOR	11	9	1	1	1
GEAR:					
NUMBER	11,960	360	24	4	3
SQUARE YARDS	-	-	-	1,350	15,060

ITEM	LINES						
	HAND			TROLL			LONG OR SET WITH HOOKS
	ALBACORE	ROCKFISH	OTHER	SALMON	TUNA	OTHER	
	NUMBER						
FISHERMEN:							
ON VESSELS	36	4	54	758	434	72	-
ON BOATS AND SHORE, REGULAR	-	-	147	532	12	108	2
TOTAL	36	4	201	1,290	446	180	2
VESSELS, MOTOR	4	2	18	379	217	24	-
GROSS TONNAGE	98	28	235	6,153	6,969	387	-
BOATS, MOTOR	-	-	49	266	6	36	1
GEAR:							
NUMBER	36	10	469	3,225	1,784	540	20
HOOKS OR BAITS	36	20	938	16,125	5,352	540	4,400

ITEM	HARPOONS, WHALE	DREDGES, OYSTER, COMMON	TONGS AND GRABS, OYSTER	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN:					
ON VESSELS	14	-	-	24	1,355
ON BOATS AND SHORE, REGULAR	-	6	10	56	786
TOTAL	14	6	10	80	2,141
VESSELS, MOTOR	3	-	-	3	619
GROSS TONNAGE	579	-	-	121	14,049
BOATS, MOTOR	-	3	5	7	136
GEAR:					
NUMBER	3	3	10	30	-
YARDS AT MOUTH	-	3	-	-	-

SAN FRANCISCO DISTRICT OF CALIFORNIA LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	-	-	217,700	21,772	-	-
BON.TO	-	-	1,600	165	-	-
CARP	289,200	20,189	-	-	-	-
FLOUNDERS:						
ARROWTOOTH HALIBUT	-	-	-	-	2,500	107
CALIFORNIA HALIBUT	-	-	-	-	72,700	19,751
SAND DABS	-	-	-	-	195,800	20,324
"SOLE":						
DOVER	-	-	-	-	1,108,600	80,484
ENGLISH	-	-	-	-	876,800	87,765
PETRALE	-	-	-	-	911,500	137,651
REX	-	-	-	-	232,900	25,652
SAND	-	-	-	-	114,300	14,153
UNCLASSIFIED	-	-	-	-	500	57
OTHER	-	-	-	-	126,900	8,871
HAKE	-	-	-	-	5,400	108
HERRING, SEA	13,400	4,154	16,000	4,895	-	-
JACK MACKEREL	-	-	-	-	1,600	81
KING CROAKER	1,500	195	-	-	4,500	610
LINGCOD	-	-	-	-	327,000	26,526
PERCH	41,900	14,056	-	-	-	-
ROCKFISHES	-	-	-	-	687,800	51,051
SABLEFISH	-	-	-	-	339,600	18,064
SHARKS, UNCLASSIFIED	-	-	-	-	44,100	2,002
SKATES	-	-	-	-	17,200	230
SMELT	30,400	3,678	47,000	5,686	-	-
TUNA, ALBACORE	-	-	100,000	25,500	-	-
TURBOT	-	-	-	-	8,700	444
WHITEBAIT	15,000	2,025	16,300	2,195	-	-
UNCLASSIFIED:						
FOR FOOD	206,400	61,643	-	-	-	-
FOR BAIT AND ANIMAL FOOD	-	-	-	-	27,000	540
CRABS, DUNGENESS	-	-	-	-	10,100	3,495
SHRIMP, OCEAN	-	-	-	-	301,000	42,935
OCTOPUS	-	-	-	-	1,400	63
TOTAL	597,800	105,940	398,600	60,213	5,417,900	540,964

SPECIES	POTS AND TRAPS		GILL AND TRAMMEL NETS		LINES	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CABEZONE	-	-	-	-	200	18
CARP	96,400	6,729	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	-	-	4,900	1,323	4,000	1,080
OTHER	-	-	-	-	1,100	77
KING CROAKER	-	-	600	78	-	-
LINGCOD	-	-	-	-	9,500	760
ROCKFISHES	-	-	-	-	82,600	5,782
SABLEFISH	-	-	-	-	8,200	435
SALMON:						
CHINOOK OR KING	-	-	-	-	1,744,900	1,460,215
SILVER OR COHO	-	-	-	-	167,600	88,881
SHARKS, UNCLASSIFIED	-	-	1,800	81	1,000	45
TUNA, ALBACORE	-	-	-	-	4,210,700	1,087,706
UNCLASSIFIED, FOR FOOD	206,500	61,643	-	-	-	-
CRABS, DUNGENESS	855,500	296,173	-	-	-	-
SHELLFISH, UNCLASSIFIED	106,700	41,850	-	-	-	-
TOTAL	1,265,100	406,395	7,300	1,482	6,229,800	2,644,999

SPECIES	HARPOONS, WHALE		DREDGES, OYSTER, COMMON		TONGS AND GRABS, OYSTER		DIVING OUTFITS, ABALONE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ABALONE	-	-	-	-	-	-	6,100	12,149
OYSTERS:								
EASTERN	-	-	-	-	16,700	49,230	-	-
PACIFIC	-	-	[illegible]	2,370	150,000	134,998	-	-
WHALE PRODUCTS:								
MEAL	[illegible]	44,212	-	-	-	-	-	-
MEAT	463,000	46,297	-	-	-	-	-	-
OIL:								
SPERM	[illegible]	[illegible]	-	-	-	-	-	-
WHALE	[illegible]	[illegible]	-	-	-	-	-	-
TOTAL	1,825,200	138,528	[illegible]	2,370	166,700	184,228	6,100	12,149

MONTEREY DISTRICT OF CALIFORNIA - OPERATING UNITS, 1970

ITEM	PURSE SEINES AND LAMPARA NETS				OTTER TRAWLS, FISH
	ANCHOVY	MACKEREL	SQUID	OTHER	
	NUMBER				
FISHERMEN:					
ON VESSELS	10	141	128	77	69
ON BOATS AND SHORE, REGULAR	-	55	8	42	45
TOTAL	10	196	136	119	114
VESSELS, MOTOR	1	13	16	11	23
GROSS TONNAGE	52	272	345	207	591
BOATS, MOTOR	1	6	1	6	15
GEAR:					
NUMBER	1	18	17	17	38
LENGTH, YARDS	425	7,461	6,919	10,115	-
YARDS AT MOUTH	-	-	-	-	1,026

ITEM	POTS AND TRAPS		GILL NETS, DRIFT	LINES	
				HAND	
	CRAB	OCTOPUS		ALBACORE	OTHER
	NUMBER				
FISHERMEN:					
ON VESSELS	4	2	9	45	138
ON BOATS AND SHORE, REGULAR	-	-	21	-	267
TOTAL	4	2	30	45	405
VESSELS, MOTOR	2	2	3	5	46
GROSS TONNAGE	23	16	34	225	607
BOATS, MOTOR	-	-	7	-	89
GEAR:					
NUMBER	260	12	40	45	945
SQUARE YARDS	-	-	13,500	-	-
HOOKS OR BAITS	-	-	-	45	1,890

ITEM	LINES - CONTINUED			DIP, BRAIL, OR SCOOP NETS	TOTAL, EXCLUSIVE OF DUPLICATION
	TROLL				
	SALMON	TUNA	OTHER		
	NUMBER				
FISHERMEN:					
ON VESSELS	278	606	75	12	1,150
ON BOATS AND SHORE, REGULAR	264	34	78	-	591
TOTAL	542	640	153	12	1,741
VESSELS, MOTOR	139	303	25	4	453
GROSS TONNAGE	3,042	7,958	368	53	10,538
BOATS, MOTOR	132	17	26	-	218
GEAR:					
NUMBER	1,355	2,560	459	12	-
HOOKS OR BAITS	6,775	7,680	459	-	-

PACIFIC COAST FISHERIES

MONTEREY DISTRICT OF CALIFORNIA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	1,907,500	33,391	-	-	-	-
BONITO	70,000	3,643	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	-	-	3,300	983	-	-
SAND DABS	-	-	100,400	8,117	-	-
"SOLE":						
DOVER	-	-	42,400	2,583	-	-
ENGLISH	-	-	364,100	34,300	-	-
PETRALE	-	-	265,100	42,751	-	-
REX	-	-	78,900	6,815	-	-
SAND	-	-	10,800	1,358	-	-
UNCLASSIFIED	-	-	200	22	-	-
OTHER	-	-	31,500	2,506	-	-
HAKE	-	-	2,900	57	-	-
HERRING, SEA	235,000	22,697	-	-	-	-
JACK MACKEREL	505,000	23,514	9,700	456	-	-
KING CROAKER	81,000	4,374	22,100	1,193	-	-
LINGCOD	-	-	136,200	11,352	-	-
PERCH	6,800	1,337	600	118	-	-
POMPANO	7,300	3,534	1,500	726	-	-
ROCKFISHES	-	-	2,566,700	200,206	-	-
SABLEFISH	-	-	262,700	17,864	-	-
SHARKS, UNCLASSIFIED	-	-	6,600	383	-	-
SKATES	-	-	22,000	440	-	-
SMELT	3,000	360	-	-	-	-
TUNA, ALBACORE	30,600	7,956	-	-	-	-
UNCLASSIFIED, FOR BAIT AND ANIMAL FOOD	5,000	105	1,400	29	-	-
CRABS:						
DUNGENESS	-	-	200	82	1,100	451
ROCK	-	-	-	-	1,400	71
SHRIMP, OCEAN	-	-	11,600	11,098	-	-
OCTOPUS	-	-	100	12	700	86
SQUID	8,195,700	329,271	-	-	-	-
SHELLFISH, UNCLASSIFIED	-	-	-	-	700	16
TOTAL	11,046,900	430,18[illegible]	[illegible]	[illegible]	[illegible],900	[illegible]

SPECIES	GILL NETS		LINES		DIP, BRAIL OR SCOOP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BONITO	-	-	3,400	177	-	-
CABEZONE	-	-	7,400	406	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	6,000	1,788	1,100	328	-	-
SAND DABS	10,000	810	200	16	-	-
"SOLE":						
PETRALE	-	-	400	64	-	-
UNCLASSIFIED	8,000	880	3,600	392	-	-
OTHER	2,700	216	2,700	216	-	-
HERRING, SEA	51,600	5,005	-	-	-	-
KING CROAKER	94,800	5,084	-	-	-	-
LINGCOD	-	-	43,100	3,577	-	-
PERCH	5,000	985	-	-	-	-
POMPANO	-	-	1,000	484	-	-
ROCKFISHES	-	-	308,500	24,063	-	-
SABLEFISH	-	-	957,400	64,904	-	-
SALMON:						
CHINOOK OR KING	-	-	523,000	463,334	-	-
SILVER OR COHO	-	-	20,000	10,452	-	-
SEA BASS, WHITE	10,800	3,952	1,200	439	-	-
SHARKS, UNCLASSIFIED	15,000	861	3,300	191	-	-
SKATES	5,600	112	2,000	40	-	-
SMELT	-	-	-	-	6,800	817
SWORDFISH	-	-	1,000	598	-	-
TUNA, ALBACORE	-	-	4,478,000	1,166,268	-	-
UNCLASSIFIED, FOR BAIT AND ANIMAL FOOD	8,500	176	6,900	145	-	-
SQUID	-	-	-	-	431,400	17,256
TOTAL	218,000	19,869	6,364,200	1,736,094	438,200	18,073

SANTA BARBARA DISTRICT OF CALIFORNIA
OPERATING UNITS, 1970

ITEM	PURSE SEINES AND LAMPARA NETS				OTTER TRAWLS	
	ANCHOVY	MACKEREL	TUNA	OTHER	FISH	SHRIMP
	NUMBER					
FISHERMEN:						
ON VESSELS	160	72	66	12	105	12
ON BOATS AND SHORE, REGULAR	-	-	-	-	42	3
TOTAL	160	72	66	12	147	15
VESSELS, MOTOR	16	8	6	4	35	4
GROSS TONNAGE	1,545	513	410	176	1,102	157
BOATS, MOTOR	16	8	12	4	14	1
GEAR:						
NUMBER	16	8	6	4	49	5
LENGTH, YARDS	6,800	4,336	4,830	1,244	-	-
YARDS AT MOUTH	-	-	-	-	1,323	135

ITEM	POTS AND TRAPS		GILL NETS, DRIFT		
	CRAB	LOBSTER	BARRACUDA	SEA BASS	OTHER
	NUMBER				
FISHERMEN:					
ON VESSELS	10	18	9	12	51
ON BOATS AND SHORE, REGULAR	34	44	-	-	9
TOTAL	44	62	9	12	60
VESSELS, MOTOR	5	9	3	4	17
GROSS TONNAGE	64	150	45	64	322
BOATS, MOTOR	17	22	-	-	3
GEAR:					
NUMBER	684	3,100	12	16	80
SQUARE YARDS	-	-	4,050	5,400	27,000

ITEM	TRAMMEL NETS	LINES			
		HAND			TROLL
		ALBACORE	ROCKFISH	OTHER	SALMON
	NUMBER				
FISHERMEN:					
ON VESSELS	3	702	2	186	122
ON BOATS AND SHORE, REGULAR	3	72	-	135	162
TOTAL	6	774	2	321	284
VESSELS, MOTOR	1	78	1	62	61
GROSS TONNAGE	10	2,105	49	1,813	825
BOATS, MOTOR	1	8	-	45	81
GEAR:					
NUMBER	2	774	5	749	710
SQUARE YARDS	10,040	-	-	-	-
HOOKS OR BAITS	-	774	10	1,498	3,550

ITEM	LINES - CONTINUED			DIP, BRAIL OR SCOOP NETS	HARPOONS
	TROLL - CONTINUED		LONG OR SET WITH HOOKS		
	ALBACORE	OTHER			SWORDFISH
	NUMBER				
FISHERMEN:					
ON VESSELS	696	135	4	56	24
ON BOATS AND SHORE, REGULAR	126	180	10	-	18
TOTAL	822	315	14	56	42
VESSELS, MOTOR	348	45	2	7	12
GROSS TONNAGE	8,595	566	21	239	283
BOATS, MOTOR	63	60	5	-	9
GEAR:					
NUMBER	3,288	945	140	21	30
HOOKS OR BAITS	9,864	945	30,800	-	-

ITEM	HARPOONS-CONTINUED	TONGS, OYSTER	DIVING OUTFITS, ABALONE	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	OTHER				
	NUMBER				
FISHERMEN:					
ON VESSELS	4	-	96	-	1,848
ON BOATS AND SHORE, REGULAR	2	8	770	6	1,208
TOTAL	6	8	866	6	3,056
VESSELS, MOTOR	2	-	12	-	480
GROSS TONNAGE	24	-	149	-	12,968
BOATS, MOTOR	1	4	97	4	273
GEAR, NUMBER	3	8	325	-	-

SANTA BARBARA DISTRICT OF CALIFORNIA LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES AND LAMPARA NETS		OTTER TRAWLS		POTS AND TRAPS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	19,614,300	224,597	-	-	-	-
BONITO.	628,000	41,107	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT. . . .	-	-	25,400	10,138	-	-
SAND DABS	-	-	1,500	194	-	-
"SOLE":						
DOVER	-	-	30,700	1,838	-	-
ENGLISH	-	-	389,300	32,506	-	-
PETRALE	-	-	270,300	41,273	-	-
REX	-	-	63,200	6,648	-	-
SAND.	-	-	14,300	1,709	-	-
OTHER	-	-	400	36	-	-
JACK MACKEREL	3,383,400	128,899	-	-	-	-
LINGCOD	-	-	77,200	6,791	-	-
PERCH	-	-	300	87	-	-
POMPANO	3,400	525	-	-	-	-
ROCKFISHES.	-	-	2,212,600	154,439	-	-
SEA BASS, WHITE	-	-	800	300	-	-
SHARKS, UNCLASSIFIED. . . .	-	-	1,600	189	-	-
SKATES.	-	-	1,500	120	-	-
TUNA, ALBACORE.	303,100	79,351	-	-	-	-
TURBOT.	-	-	17,500	1,223	-	-
YELLOWTAIL.	100	10	-	-	-	-
UNCLASSIFIED:						
FOR FOOD.	-	-	300	18	-	-
FOR BAIT AND ANIMAL FOOD.	-	-	501,200	10,019	-	-
CRABS:						
DUNGENESS	-	-	-	-	1,100	566
ROCK.	-	-	-	-	207,500	16,999
LOBSTER, SPINY.	-	-	-	-	85,900	104,925
SHRIMP, OCEAN	-	-	77,400	15,182	-	-
SQUID	4,634,400	67,025	-	-	-	-
SHELLFISH, UNCLASSIFIED . .	-	-	-	-	1,500	5,581
TOTAL	28,566,700	541,514	3,685,500	[illegible]	296,000	128,071

SPECIES	GILL AND TRAMMEL NETS		LINES		DIP, BRAIL, OR SCOOP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BARRACUDA	600	166	-	-	-	-
BONITO.	-	-	8,400	546	-	-
CABEZON	-	-	2,900	173	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT. . . .	50,000	20,000	2,000	800	-	-
"SOLE":						
DOVER	-	-	100	6	-	-
ENGLISH	-	-	1,700	136	-	-
PETRALE	-	-	1,000	150	-	-
REX	-	-	100	11	-	-
SAND.	-	-	400	48	-	-
UNCLASSIFIED.	5,000	523	1,800	180	-	-
OTHER	7,000	633	3,000	273	-	-
HAKE.	-	-	1,500	30	-	-
KING CROAKER.	2,700	145	1,100	59	-	-
LINGCOD	-	-	19,700	1,732	-	-
MACKEREL, PACIFIC	-	-	800	43	-	-
PERCH	22,300	6,547	-	-	-	-
POMPANO	-	-	500	75	-	-
ROCKFISHES.	-	-	244,600	16,951	-	-
SALMON:						
CHINOOK OR KING	-	-	201,000	182,146	-	-
SILVER OR COHO.	-	-	7,600	4,004	-	-
SEA BASS:						
BLACK	-	-	700	102	-	-
WHITE	43,200	16,208	7,300	2,737	-	-
SHARKS, UNCLASSIFIED. . . .	60,000	7,098	28,100	3,324	-	-
SHEEPSHEAD.	-	-	500	48	-	-
SKATES.	-	-	100	8	-	-
TUNA:						
ALBACORE.	-	-	4,900,000	1,282,765	-	-
SKIPJACK.	-	-	1,500	210	-	-
SQUID	-	-	-	-	243,900	3,536
TOTAL	190,800	51,320	5,436,400	1,496,557	243,900	3,536

SPECIES	HARPOONS				TONGS AND BY HAND		DIVING OUTFITS, ABALONE	
	SWORDFISH		OTHER					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SHARKS, UNCLASSIFIED. . . .	-	-	20,000	2,362	-	-	-	-
SWORDFISH	122,300	64,157	-	-	-	-	-	-
ABALONE	-	-	-	-	-	-	275,000	470,471
OYSTERS, PACIFIC.	-	-	-	-	219,900	197,988	-	-
TOTAL	122,300	64,157	20,000	2,362	219,900	197,988	275,000	470,471

PACIFIC COAST FISHERIES

SAN PEDRO DISTRICT OF CALIFORNIA
OPERATING UNITS, 1970

ITEM	PURSE SEINES				LAMPARA NETS	
	ANCHOVY	MACKEREL	TUNA	OTHER	MACKEREL	OTHER
				NUMBER		
FISHERMEN:						
ON VESSELS	[illegible]	306	[illegible]	108	66	[illegible]
ON BOATS AND SHORE, REGULAR	-	-	-	3	-	-
TOTAL	290	306	[illegible]	111	66	[illegible]
VESSELS, MOTOR	[illegible]	34	134	[illegible]	[illegible]	[illegible]
GROSS TONNAGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BOATS, MOTOR	[illegible]	34	[illegible]	1	-	-
GEAR:						
NUMBER	[illegible]	34	134	[illegible]	[illegible]	[illegible]
LENGTH, YARDS	12,325	18,428	107,870	11,507	3,570	[illegible]

ITEM	POTS AND TRAPS			GILL NETS, DRIFT		
	CRAB	FISH	SPINY LOBSTER	BARRACUDA	SEA BASS	OTHER
				NUMBER		
FISHERMEN:						
ON VESSELS	6	[illegible]	11	[illegible]	[illegible]	[illegible]
ON BOATS AND SHORE, REGULAR	14	4	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VESSELS, MOTOR	3	2	11	1	20	26
GROSS TONNAGE	34	35	245	8	345	493
BOATS, MOTOR	7	4	44	3	3	13
GEAR:						
NUMBER	[illegible]	[illegible]	[illegible]	13	[illegible]	[illegible]
SQUARE YARDS	-	-	-	1,362	31,050	52,650

ITEM	TRAMMEL NETS	LINES				
		HAND				TROLL
		ALBACORE	ROCKFISH	YELLOWFIN AND SKIPJACK	OTHER	TUNA
				NUMBER		
FISHERMEN:						
ON VESSELS	-	1,512	[illegible]	[illegible]	[illegible]	[illegible]
ON BOATS AND SHORE, REGULAR	3	[illegible]	[illegible]	9	159	10
TOTAL	3	[illegible]	[illegible]	360	[illegible]	[illegible]
VESSELS, MOTOR	1	168	3	39	128	13
GROSS TONNAGE	15	8,296	46	4,171	8,665	287
BOATS, MOTOR	-	12	1	1	53	12
GEAR:						
NUMBER	3	1,620	20	360	1,267	212
SQUARE YARDS	15,060	-	-	-	-	-
HOOKS OR BAITS	-	1,620	40	360	2,534	420

ITEM	LINES - CONTINUED		DIP, BRAIL, OR SCOOP NETS	HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	TROLL-CONTINUED	LONG OR SET WITH HOOKS				
	OTHER					
				NUMBER		
FISHERMEN:						
ON VESSELS	3	8	168	94	104	3,450
ON BOATS AND SHORE, REGULAR	3	8	16	46	2	994
TOTAL	[illegible]	16	[illegible]	140	106	4,444
VESSELS, MOTOR	1	4	21	47	13	429
GROSS TONNAGE	19	133	597	906	172	63,331
BOATS, MOTOR	1	-	2	23	1	450
GEAR:						
NUMBER	18	160	69	70	40	-
HOOKS OR BAITS	[illegible]	[illegible]	-	-	-	-

SAN PEDRO DISTRICT OF CALIFORNIA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES AND LAMPARA NETS		POTS AND TRAPS		GILL AND TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ANCHOVIES	170,745,600	1,877,424	-	-	-	-
BARRACUDA	7,000	1,953	-	-	8,000	2,226
BONITO	7,184,900	513,477	-	-	-	-
FLOUNDER, CALIFORNIA HALIBUT	-	-	-	-	23,000	9,085
FLYING FISH	25,000	3,700	-	-	25,000	3,700
HALFMOON	-	-	-	-	7,800	1,672
JACK MACKEREL	43,841,100	1,727,911	-	-	-	-
KING CROAKER	72,000	6,624	-	-	233,000	21,353
MACKEREL, PACIFIC	598,000	47,510	-	-	-	-
OPALEYE	6,400	986	-	-	-	-
PERCH	-	-	-	-	70,000	3,504
POMPANO	92,000	28,154	-	-	22,700	6,946
SARDINE, PACIFIC	267,900	57,705	-	-	-	-
SEA BASS:						
BLACK	-	-	-	-	24,000	5,448
WHITE	-	-	-	-	754,000	263,789
SHARKS, UNCLASSIFIED	-	-	-	-	78,100	11,130
SHEEPSHEAD	-	-	400	39	-	-
SMELT	40,000	2,091	-	-	13,000	676
TUNA:						
ALBACORE	33,500	9,213	-	-	-	-
BLUEFIN	5,951,400	1,112,700	-	-	-	-
SKIPJACK	43,980,600	6,909,456	-	-	-	-
YELLOWFIN	182,465,300	33,025,152	-	-	-	-
YELLOWTAIL	107,400	15,245	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	-	-	-	-	800	154
FOR BAIT AND ANIMAL FOOD	120,000	4,080	-	-	1,027,300	34,559
CRABS, ROCK	-	-	317,500	41,574	-	-
LOBSTER, SPINY	-	-	79,600	93,471	-	-
SQUID	9,975,000	224,602	-	-	-	-
TOTAL	465,513,100	45,567,983	397,500	135,084	2,286,700	364,242

SPECIES	LINES		DIP, BRAIL, OR SCOOP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BARRACUDA	2,000	558	-	-
BONITO	993,400	70,531	-	-
CABEZONE	200	16	-	-
FLOUNDERS:				
CALIFORNIA HALIBUT	47,800	18,849	-	-
SAND DABS	500	102	-	-
"SOLE":				
ENGLISH	100	12	-	-
UNCLASSIFIED	300	37	-	-
FLYING FISH	-	-	26,300	3,862
GROUPERS	5,500	1,393	-	-
HALFMOON	7,000	1,498	-	-
JACK MACKEREL	-	-	5,000	195
KING CROAKER	46,800	4,306	-	-
LINGCOD	600	113	-	-
MACKEREL, PACIFIC	-	-	20,000	1,580
OPALEYE	14,000	2,146	-	-
PERCH	18,400	920	-	-
POMPANO	3,000	918	-	-
ROCKFISHES	414,800	81,530	-	-
SCULPIN	1,700	668	-	-
SEA BASS:				
BLACK	74,000	16,775	-	-
WHITE	66,000	23,100	-	-
SHARKS, UNCLASSIFIED	26,100	3,719	-	-
SHEEPSHEAD	800	79	-	-
SKATES	100	3	-	-
SMELT	-	-	24,900	1,295
TUNA:				
ALBACORE	5,660,300	1,559,172	-	-
BLUEFIN	467,000	87,329	-	-
SKIPJACK	12,002,000	1,884,314	-	-
YELLOWFIN	6,235,600	1,128,643	-	-
WHITEFISH	600	51	-	-
YELLOWTAIL	35,800	5,084	-	-
UNCLASSIFIED, FOR BAIT AND ANIMAL FOOD	61,300	2,084	-	-
SQUID	-	-	1,110,300	24,982
TOTAL	26,185,700	4,893,950	1,186,500	31,914

SPECIES	HARPOONS, SWORDFISH		DIVING OUTFITS, ABALONE	
	POUNDS	DOLLARS	POUNDS	DOLLARS
SWORDFISH	667,800	384,345	-	-
ABALONE	-	-	203,200	331,060
TOTAL	667,800	384,345	203,200	331,060

SAN DIEGO DISTRICT OF CALIFORNIA
OPERATING UNITS, 1970

ITEM	PURSE SEINES AND LAMPARA NETS		POTS AND TRAPS	
	TUNA	OTHER	CRAB	SPINY LOBSTER
	NUMBER			
FISHERMEN:				
ON VESSELS	209	192	-	1
ON BOATS AND SHORE, REGULAR	-	-	18	74
TOTAL	209	192	18	75
VESSELS, MOTOR	19	48	-	1
GROSS TONNAGE	11,725	18,433	-	20
BOATS, MOTOR	38	42	9	37
GEAR:				
NUMBER	19	48	1,170	3,800
LENGTH, YARDS	15,295	14,928	-	-

ITEM	GILL NETS, DRIFT			LINES			
				HAND			
	BARRACUDA	SEA BASS	OTHER	ALBACORE	ROCKFISH	YELLOWFIN AND SKIPJACK	OTHER
	NUMBER						
FISHERMEN:							
ON VESSELS	-	-	6	972	2	297	357
ON BOATS AND SHORE, REGULAR	3	6	27	225	-	9	342
TOTAL	3	6	33	1,197	2	306	699
VESSELS, MOTOR	-	-	2	108	1	33	119
GROSS TONNAGE	-	-	33	3,386	14	2,284	4,769
BOATS, MOTOR	1	2	9	25	-	1	114
GEAR:							
NUMBER	4	8	44	1,197	5	306	1,631
SQUARE YARDS	1,350	2,700	14,850	-	-	-	-
HOOKS OR BAITS	-	-	-	1,197	10	306	3,262

ITEM	LINES - CONTINUED			HARPOONS, SWORDFISH	DIVING OUTFITS, ABALONE	TOTAL, EXCLUSIVE OF DUPLICATION
	TROLL		LONG OR SET WITH HOOKS			
	TUNA	OTHER				
	NUMBER					
FISHERMEN:						
ON VESSELS	2	-	-	10	32	1,582
ON BOATS AND SHORE, REGULAR	8	3	12	20	368	953
TOTAL	10	3	12	30	400	2,535
VESSELS, MOTOR	1	-	-	10	4	228
GROSS TONNAGE	29	-	-	299	55	29,298
BOATS, MOTOR	4	1	6	10	46	270
GEAR:						
NUMBER	40	9	120	20	150	-
HOOKS OR BAITS	120	9	26,400	-	-	-

SAN DIEGO DISTRICT OF CALIFORNIA
LANDINGS OF CATCH BY GEAR, 1970

SPECIES	PURSE SEINES AND LAMPARA NETS		POTS AND TRAPS		GILL AND TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BARRACUDA	1,800	520	-	-	5,200	1,503
BONITO	127,200	8,904	-	-	-	-
FLOUNDER, CALIFORNIA HALIBUT	-	-	-	-	7,000	2,870
FLYING FISH	-	-	-	-	2,300	367
HALFMOON	2,000	440	-	-	18,000	4,055
KING CROAKER	1,600	176	-	-	2,400	276
MACKEREL, PACIFIC	1,100	144	-	-	1,000	140
PERCH	1,700	289	-	-	7,000	1,218
SARDINE	174,400	43,596	-	-	-	-
SEA BASS:						
BLACK	-	-	-	-	5,000	1,200
WHITE	-	-	-	-	185,300	64,159
SHARKS, UNCLASSIFIED	-	-	-	-	100,500	16,531
SHEEPSHEAD	-	-	1,100	141	-	-
TUNA:						
ALBACORE	33,900	9,153	-	-	-	-
BLUEFIN	2,168,200	383,396	-	-	-	-
SKIPJACK	14,247,100	2,289,425	-	-	-	-
YELLOWFIN	39,909,200	7,131,116	-	-	-	-
YELLOWTAIL	4,100	451	-	-	-	-
CRABS, ROCK	-	-	11,500	1,078	-	-
LOBSTER, SPINY	-	-	59,900	69,924	-	-
SQUID	200	20	-	-	-	-
TOTAL	56,672,500	9,867,630	72,500	71,143	333,700	92,319

SPECIES	LINES		HARPOONS, SWORDFISH		DIVING OUTFITS, ABALONE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BONITO	175,100	12,773	-	-	-	-
FLOUNDERS:						
CALIFORNIA HALIBUT	10,000	4,108	-	-	-	-
SAND DABS	100	69	-	-	-	-
"SOLE", UNCLASSIFIED	400	116	-	-	-	-
OTHER	200	26	-	-	-	-
GROUPER	1,600	393	-	-	-	-
HALFMOON	3,800	836	-	-	-	-
KING CROAKER	800	88	-	-	-	-
LINGCOD	500	78	-	-	-	-
MACKEREL:						
JACK	700	32	-	-	-	-
PACIFIC	1,000	140	-	-	-	-
OPALEYE	2,100	401	-	-	-	-
PERCH	2,000	340	-	-	-	-
ROCKFISHES	252,200	48,926	-	-	-	-
SABLEFISH	1,000	111	-	-	-	-
SCULPIN	153,300	45,770	-	-	-	-
SEA BASS:						
BLACK	25,800	6,160	-	-	-	-
WHITE	32,800	11,480	-	-	-	-
SHARKS, UNCLASSIFIED	33,500	5,360	-	-	-	-
SHEEPSHEAD	1,000	120	-	-	-	-
SWORDFISH	-	-	153,600	84,833	-	-
TUNA:						
ALBACORE	3,113,700	831,471	-	-	-	-
BLUEFIN	68,700	12,366	-	-	-	-
SKIPJACK	6,249,400	999,904	-	-	-	-
YELLOWFIN	3,365,000	605,700	-	-	-	-
WHITEFISH	1,200	183	-	-	-	-
YELLOWTAIL	36,800	4,008	-	-	-	-
UNCLASSIFIED:						
FOR FOOD	900	153	-	-	-	-
BAIT AND ANIMAL FOOD	1,400	181	-	-	-	-
ABALONE	-	-	-	-	95,800	133,836
TOTAL	13,535,000	2,591,293	153,600	84,833	95,800	133,836

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, WASHINGTON

Halibut landings at Seattle were 3.7 million pounds (dressed weight) worth $1.4 million--a decline of 46 percent in volume and 49 percent in value compared with 1969. Fishing grounds west of Cape Spencer yielded 3.1 million pounds--a decline of 47 percent; fishing grounds south of Cape Spencer yielded 542,000 pounds--42 percent less than in 1969.

Sablefish landings from fishing grounds off Cape Spencer (13,000 pounds) were 28,000 pounds less than in 1969.

The following tables contain a summary of the landings of dressed halibut and sablefish at Seattle by the U.S. halibut fleet. These data are not directly comparable with the State and sectional tabulations, as the weights in those tables represent the round weight of fish landed.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY FISHING GROUNDS, 1970

FISHING GROUNDS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
	NUMBER	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
WEST OF CAPE SPENCER . . .	60	38	10	1,521	604	1,284	501
SOUTH OF CAPE SPENCER . . .	31	58	15	367	162	94	40
TOTAL	91	96	25	1,888	766	1,378	541

FISHING GROUNDS	HALIBUT (DRESSED) - CONTINUED				SABLEFISH		TOTAL	
	NO. 2 MEDIUM		NO. 2 LARGE					
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
WEST OF CAPE SPENCER . . .	244	84	44	16	-	-	3,131	1,215
SOUTH OF CAPE SPENCER . . .	22	9	1	(1)	13	3	555	229
TOTAL	266	93	45	16	13	3	3,686	1,444

1/ LESS THAN $500.
SEE NOTE AT END OF NEXT TABLE.

LANDINGS BY THE HALIBUT FLEET AT SEATTLE, BY MONTHS, 1970

MONTHS	TRIPS	HALIBUT (DRESSED)					
		CHICKEN		MEDIUM		LARGE	
	NUMBER	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
APRIL	4	4	1	108	47	43	19
MAY	20	10	3	506	205	280	113
JUNE.	18	39	10	302	135	165	73
JULY.	12	17	5	241	110	161	72
AUGUST.	12	14	3	238	97	208	85
SEPTEMBER	15	9	3	280	100	253	89
OCTOBER	8	2	(1)	181	60	238	79
NOVEMBER.	2	1	(1)	32	12	30	11
TOTAL	91	96	25	1,888	766	1,378	541

MONTHS	HALIBUT (DRESSED) - CONTINUED				SABLEFISH		TOTAL	
	NO. 2 MEDIUM		NO. 2 LARGE					
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
APRIL	17	7	4	2	-	-	176	76
MAY	39	14	3	1	1	(1)	839	336
JUNE.	28	11	9	4	2	1	545	234
JULY.	19	8	4	1	8	2	450	198
AUGUST.	50	18	4	2	-	-	514	205
SEPTEMBER	47	15	7	2	2	(1)	598	209
OCTOBER	48	14	10	3	-	-	479	156
NOVEMBER.	18	6	4	1	-	-	85	30
TOTAL	266	93	45	16	13	3	3,686	1,444

1/ LESS THAN $500.

NOTE:--THE 1970 HALIBUT FISHERY SEASON OPENED MARCH 17 IN AREAS 3C, 4C AND 4D. AREA 4C CLOSED APRIL 11, AND AREAS 3C AND 4D CLOSED NOVEMBER 15. AREAS 4A AND 4B WERE OPEN FROM MARCH 22 TO APRIL 4; AREA 4B REOPENED SEPTEMBER 1 AND CLOSED SEPTEMBER 14. AREA 3B WAS OPEN FROM APRIL 1 TO 6, REOPENED APRIL 25, AND CLOSED SEPTEMBER 30. AREAS 2 AND 3A OPENED APRIL 25 AND CLOSED SEPTEMBER 21.

WHALING, 1970

In 1970, the U.S. Department of the Interior placed eight species of whales on the endangered species list--reflecting a mounting national concern over the prediction of biologists that certain species are approaching extinction. The endangered whales were the bowhead, blue, humpback, right, gray, fin or finback, sei, and sperm. The last three were the only species sought recently by U.S. commercial whalers.

The NMFS Fishery-Oceanography Center in La Jolla, Calif., continued as a center for cetacean research. The whale research was directed toward understanding the life history, population dynamics, and ecology of the gray, sperm, and other whales inhabiting the eastern North Pacific Ocean. The whale program will continue to focus on the gray and sperm whales. The gray whale, once hunted almost to extinction, is now protected by international agreement. During its annual migration to its calving grounds at Scammon's Lagoon and other lagoons in Baja California, the gray whale passes the coast near Yankee Point, Calif., where NMFS makes a population count each year. Biologists estimate that the gray whale population is now about 11,000.

During the whaling season the Del Monte Fishing Company operated a whaling station at Point San Pablo, Calif. It was the only whaling station operating in the United States in 1970. As in previous years, the Del Monte Company used the catcher boats Allen Cody, Dennis Gayle, and Donna Mae. A special scientific permit authorized the capture of 30 of the 64 sperm whales taken. These 30 whales were taken under the supervision of a biologist.

All whale carcasses (excluding the meat) were taken to the Pacific Rendering Company, San Francisco, Calif., for processing into meal and oil. The entire catch was processed into 662,000 pounds of meal, 680,000 pounds of oil, and 483,000 pounds of meat (for use as canned or frozen animal food). These products were valued at $138,000 to the producer--a decline of $190,000 compared with 1969.

WHALE LANDINGS, 1970

MONTH	FIN	SEI	SPERM	TOTAL
		NUMBER		
JANUARY	-	-	1	1
MARCH	-	-	9	9
MAY	-	-	11	11
JUNE	2	1	-	3
JULY	1	3	-	4
AUGUST	2	-	6	8
SEPTEMBER	-	-	4	4
OCTOBER	-	-	9	9
NOVEMBER	-	-	19	19
DECEMBER	-	-	5	5
TOTAL	5	4	64	73

NOTE:--SPECIAL SCIENTIFIC PERMIT NO. 1970-1 AUTHORIZED THE CAPTURE OF 1 SPERM WHALE IN JANUARY, 9 IN MARCH, 6 IN MAY, 1 IN SEPTEMBER, 2 IN OCTOBER, 8 IN NOVEMBER, AND 3 IN DECEMBER.

WHALE PRODUCTS, 1970

ITEM	THOUSAND POUNDS	THOUSAND DOLLARS
MEAL	662	44
MEAT	483	48
OIL:		
SPERM	602	40
WHALE	78	6
TOTAL	1,825	138

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

PACIFIC COAST FISHERIES

FUR SEAL INDUSTRY OF THE PRIBILOF ISLANDS, 1970

Fur sealing operations on the Pribilof Islands produced 42,179 commercial sealskins--an increase of 3,374 compared with 1969. Male seals accounted for 42,060 commercial sealskins; the remaining 119 were taken from female seals. Only 21 female seals were taken for scientific research; the rest were taken inadvertently.

CLASSES OF MALE SEALS TAKEN ON THE PRIBILOF ISLANDS, BY AGE GROUP, 1970

ITEM	ST. PAUL ISLAND	ST. GEORGE ISLAND
	PERCENT	
BY AGE:		
2-YEAR-OLDS	5	2
3-YEAR-OLDS	61	49
4-YEAR-OLDS	32	38
5-YEAR-OLDS	2	9
6-YEAR-OLDS	-	2
TOTAL	100	100

NOTE:--THE SEALING SEASON BEGAN JUNE 24 AND ENDED JULY 31, 1970.

Fur seal production on St. Paul Island was 86 percent of the total harvest--slightly more than in 1969.

For the eighth consecutive year, sealskin curing operations were under Government supervision. Of the 65-man crew only 28 were Pribilof and Aleutian residents. The rest were from the mainland areas. During the peak of the season, 46 men were employed in the plant at St. Paul and 19 at St. George Island.

A 5-year contract was awarded to the Oregon Marine Products Company to process fur seal carcasses from St. Paul Island and produce ground meat for use as frozen animal food. The Mitsubishi International, a Japanese company, has a similar contract to use the fur seal carcasses from St. George Island, but did not process carcasses in either 1969 or 1970.

A team of scientists from Virginia Mason Research Center of Seattle, Wash., spent considerable time on St. Paul Island, as they had in 1969. The team continued investigations of the various possible methods of destroying fur seals humanely.

DISTRIBUTION AND TAKE OF SEALSKINS, 1970

The fur seal treaty provides that Canada and Japan each receive 15 percent of the skins taken in the Pribilof Islands. The distribution of sealskins follows.

ITEM	UNITED STATES	CANADA	JAPAN	TOTAL
		NUMBER		
ST. PAUL ISLAND	25,380	5,439	5,439	36,258
ST. GEORGE ISLAND	4,145	888	888	5,921
TOTAL	29,525	6,327	6,327	42,179

The standard packing formula used in 1970 was 80 skins per barrel, with the exception of 100 barrels that were packed with 75 skins. Female sealskins were not barreled separately, but were marked and packed with the male skins. The season's production of blubber was 276 barrels.

PACIFIC COAST FISHERIES

SALE OF SEALSKINS, 1970

There were 39,722 fur sealskins sold for the account of the U.S. Government at two public auctions held in Greenville, S.C. Gross receipts from both 1970 sales were $2,929,400. Offerings consisted of 34,203 conventionally processed skins, 2,891 LAKODA sheared skins, and 2,628 natural sheared. Proceeds of the sale that took place April 9-10 totaled $1,639,300 and from the sale of Nov. 2-3, $1,290,100.

DISTRIBUTION OF PRIBILOF ISLANDS RECEIPTS, FISCAL YEAR, 1970

ITEM	DOLLARS
COST OF HANDLING, PROCESSING, DYEING, AND DRESSING.	535,889
COST OF ADMINISTRATION OF PRIBILOF ISLANDS.	2,676,323
PAYMENT TO THE STATE OF ALASKA.	-
NET RECEIPTS TO THE U.S. GOVERNMENT	-
TOTAL	3,212,212

NOTE:--FIGURES SHOWN IN THE ABOVE TABLE ARE COMPUTED ON A FISCAL YEAR BASIS. THOSE QUOTED IN THE PRECEDING NARRATIVE ARE ON A CALENDAR YEAR BASIS.

SECTION 8 - GREAT LAKES FISHERIES

United States and Canadian fishermen in the five Great Lakes, Lake St. Clair, and three of the five international lakes of northern Minnesota and Canada landed 113.7 million pounds of freshwater fish--a decline of 13.7 million compared with 1969. U.S. landings, however, increased from 68.5 million pounds worth $6.1 million in 1969 to 71.6 million pounds worth $6.4 million in 1970. U.S. landings were 63 percent of the total production. Canadian fishermen landed 42.1 million pounds--16.7 million less than in 1969. Two species (smelt and yellow perch) dominated the landings and accounted for 73 percent of the Canadian harvest.

The increased U.S. production was caused principally by greater landings of alewives--33.5 million pounds in 1970 compared with 29.2 million in 1969. Taken chiefly in Lake Michigan, alewives accounted for 47 percent of the U.S. landings. Compared with 1969, landings of carp (6.6 million pounds); chubs (11.0 million); coho salmon (2.2 million); suckers (1.4 million); and whitefish (2.4 million) increased moderately, but lake herring (1.4 million); sheepshead (1.1 million); smelt (3.6 million); white bass (1.1 million); and yellow perch (4.3 million pounds) declined.

Wisconsin led in volume of landings with 37.7 million pounds, followed by Michigan with 21.2 million; Ohio, 8.4 million; and Minnesota, 2.5 million pounds. Four States (New York, Pennsylvania, Illinois, and Indiana) supplied the remaining 1.8 million pounds. The five Great Lakes in order of total production were Michigan, 53.1 million pounds; Erie, 9.5 million; Superior, 5.0 million; Huron, 2.4 million pounds; and Ontario, 333,000 pounds. Lake of the Woods landings (1.1 million pounds) accounted for 96 percent of the U.S. production in the boundary lakes.

Fishermen and vessels. In 1970, 1,470 fishermen operated 231 vessels (5 net tons or more) and 614 smaller craft in the U.S. commercial fisheries--a decline of 207 fishermen, 38 vessels, and 133 smaller craft compared with 1969.

Processed products. The value of processed seafood items was $36.5 million--an increase of $3.2 million compared with 1969. Ohio led with products valued at $19.5 million, followed by Illinois and Indiana together with $5.4 million; Michigan, $5.1 million; and Wisconsin, $4.1 million. New York, Minnesota, and Pennsylvania supplied the remaining $2.4 million. There were 2,122 persons employed in 199 wholesaling and processing plants in the eight States.

U.S. landings by lake.

Lake Ontario. Landings of 333,000 pounds worth $78,800 were 39,500 pounds and $35,100 more than in 1969. The harvest was the third largest since 1952. Compared with 1969, the value of bullheads ($28,600) increased 89 percent, white perch ($27,600) increased 290 percent, and yellow perch ($3,700) increased 127 percent. The total gain in value resulted from the higher prices fishermen received for these three species.

Lake Erie. Landings were 9.5 million pounds worth $1.3 million--a decrease of 14 percent in volume and 11 percent in value compared with 1969. Landings were 5.7 million pounds less than the 10-year average (1960-69) and the smallest harvest on record. Compared with 1969, the production of catfish, sheepshead, white bass, yellow perch, and yellow pike declined sharply. Carp was the only major species to increase in volume; carp landings of 3.4 million pounds were 381,300 pounds more than in 1969.

The fisheries of Lake Erie were curtailed sharply when the States of Ohio and Michigan closed the lake to commercial fishing in April 1970 because of possible contamination from high levels of mercury. Ohio soon reopened its fisheries, but Michigan's remained closed during the rest of the year. After the closure, a small production was taken from State of Michigan waters because netting operations were being tested.

Future prospects for the fisheries appear to be fairly encouraging. Biologists have reported that the hatch of white bass in 1970 was the best since 1957, and that the hatch and survival of yellow pike was also good. The yellow perch hatch was not as good as biologists had anticipated but was better than any year class since 1965.

Lake Huron. Landings of 2.4 million pounds were 17 percent less than in 1969, and the smallest production on record. The harvest of most major species--carp, chubs, white bass, whitefish, yellow perch, and yellow pike--declined sharply. However, catfish landings of 225,600 pounds increased 85 percent compared with 1969.

Lake Michigan. Landings of 53.1 million pounds worth $3.8 million increased 5.6 million pounds and $790,700 compared with 1969. The harvest was second only to the record 59-million-pound landings of 1967.

Lake Michigan accounted for 74 percent of the total Great Lakes landings and 59 percent of the value. Alewife landings of 33.5 million pounds were 4.2 million more than in 1969, and were 63 percent of the Lake Michigan production. Compared with 1969, landings of chubs (9.6 million pounds) increased 5 percent, coho salmon (2.2 million) increased 96 percent, and whitefish (1.7 million pounds) increased 25 percent. Whitefish landings were the best since 1952. The combined landings of chubs and whitefish were only 21 percent of the total harvest for the lake, but their combined value ($3.5 million) was 71 percent of the total value. Lake trout, the high-priced species virtually eliminated by the sea lamprey, yielded landings of more than 87,000 pounds--the best harvest since 1949. The apparent rehabilitation of this fishery has resulted from effective lamprey control, restricted fishing, and restocking of the fishery resource.

Lake Superior. Landings of 5 million pounds were 230,600 pounds less than in 1969, and the smallest harvest since the turn of the century. Since 1961, production has trended steadily downward--principally because of a marked decrease in landings of lake herring, for many years the mainstay of the Lake Superior fishery. Lake herring landings were 1.4 million pounds--40 percent less than in 1969, and far below the record 17.8 million pounds taken in 1941. Lake trout, another important species, continued a sharp decline that began in 1959. Lake trout landings of 188,000 were 11 percent less than in 1969. In 1970, for the first time, smelt became the leading species in Lake Superior with a production of 1.6 million pounds--almost 50 percent greater than in the previous year.

Research. The four NMFS vessels, Cisco, Kaho, Musky II, and Siscowet continued to support research studies on the Great Lakes. Research continued on the alewife population explosion, pesticide concentrations in fish, and botulism organisms.

Sea lamprey control. The final count of sea lampreys captured at the 16 Lake Superior barriers was 5,692--compared with 9,234 in 1969. These barriers are used to assess the effectiveness of lampricides in the control of larval sea lampreys. Stream treatments are continuing on Lakes Huron and Michigan.

Other information. Seasonal variations in fish landings in Michigan, Ohio, and Wisconsin can be ascertained from monthly landings bulletins issued currently in cooperation with the fishery departments of these States. Additional specific data on Great Lakes fisheries may be found in the daily, monthly, and annual reports published by NMFS's Fishery Market News Service Office in Chicago, Ill.

Acknowledgments. The following organizations helped collect the data appearing in this section: Dominion Bureau of Statistics of Canada; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Michigan Department of Natural Resources, Fisheries Division, Great Lakes Fisheries; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; New York State Department of Environmental Conservation, Great Lakes Fisheries Station; Ohio Department of Natural Resources, Division of Wildlife, Section of Fish Management; Pennsylvania Fish Commission; and the State of Wisconsin, Department of Natural Resources, Fish Management Division.

SUMMARY OF UNITED STATES AND CANADIAN LANDINGS, 1970

SPECIES	LAKE ONTARIO			LAKE ERIE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	THOUSAND POUNDS					
BLUE PIKE	-	-	-	(1)	-	(1)
BOWFIN	1	2	3	-	36	36
BUFFALOFISH	-	-	-	27	-	27
BULLHEADS	95	236	331	25	42	67
BURBOT	(1)	-	(1)	(1)	-	(1)
CARP	22	493	515	3,401	30	3,431
CATFISH	1	34	35	529	49	578
CHUBS	(1)	-	(1)	-	-	-
CRAPPIE	4	-	4	-	-	-
EEL, COMMON	50	146	196	(1)	(1)	(1)
GIZZARD, SHAD	-	-	-	5	-	5
GOLDFISH	-	-	-	163	-	163
LAKE HERRING	1	25	26	(1)	-	(1)
PIKE OR PICKEREL	-	18	18	-	1	1
QUILLBACK	-	-	-	(1)	-	(1)
ROCK BASS	11	56	67	22	42	64
SALMON, SILVER OR COHO	(1)	-	(1)	-	-	-
SAUGER	-	(1)	(1)	-	-	-
SHEEPSHEAD	(1)	15	15	1,048	260	1,308
SMELT	(1)	165	165	2	9,402	9,404
STURGEON, COMMON	-	1	1	-	(1)	(1)
SUCKERS	6	18	24	123	20	143
SUNFISH	10	169	179	-	32	32
WHITE BASS	1	5	6	1,102	196	1,298
WHITEFISH, COMMON	1	50	51	(1)	(1)	(1)
WHITE PERCH	111	447	558	-	-	-
YELLOW PERCH	19	985	1,004	3,025	19,999	23,024
YELLOW PIKE	(1)	10	10	74	25	99
UNCLASSIFIED, FOR ANIMAL FOOD	-	30	30	-	1,621	1,621
TOTAL	333	2,905	3,238	9,546	31,755	41,301

SPECIES	LAKE HURON			LAKE MICHIGAN, UNITED STATES	LAKE SUPERIOR		
	UNITED STATES	CANADA	TOTAL		UNITED STATES	CANADA	TOTAL
	THOUSAND POUNDS						
ALEWIVES	-	-	-	33,461	(1)	-	(1)
BOWFIN	(1)	-	(1)	(1)	-	-	-
BUFFALOFISH	(1)	-	(1)	-	-	-	-
BULLHEADS	57	1	58	25	-	-	-
BURBOT	(1)	6	6	93	20	7	27
CARP	1,224	37	1,261	1,935	1	-	1
CATFISH	226	16	242	(1)	-	-	-
CHUBS	12	180	192	9,646	1,319	4	1,323
CRAPPIE	10	-	10	-	-	-	-
LAKE HERRING	(1)	15	15	12	1,351	2,902	4,253
LAKE TROUT	-	(1)	(1)	87	188	168	356
PIKE OR PICKEREL	-	29	29	30	-	4	4
QUILLBACK	21	-	21	-	-	-	-
ROCK BASS	1	1	2	(1)	-	-	-
SALMON, SILVER OR COHO	-	-	-	2,243	-	-	-
SAUGER	-	-	-	(1)	-	8	8
SHEEPSHEAD	12	33	45	(1)	-	-	-
SMELT	-	5	5	1,977	1,576	(1)	1,576
STURGEON, COMMON	-	14	14	(1)	-	1	1
SUCKERS	140	174	314	969	86	48	134
WHITE BASS	(1)	7	7	(1)	-	-	-
WHITEFISH:							
COMMON	173	990	1,163	1,729	449	206	655
MENOMINEE	(1)	15	15	179	19	13	32
YELLOW PERCH	535	276	811	692	(1)	8	8
YELLOW PIKE	(1)	108	108	12	-	9	9
UNCLASSIFIED, FOR ANIMAL FOOD	-	218	218	-	-	4	4
TOTAL	2,411	2,125	4,536	53,090	5,009	3,382	8,391

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF UNITED STATES AND CANADIAN LANDINGS, 1970 - Continued

SPECIES	TOTAL, GREAT LAKES			LAKE ST. CLAIR CANADA	LAKE OF THE WOODS		
	UNITED STATES	CANADA	TOTAL		UNITED STATES	CANADA	TOTAL
	THOUSAND POUNDS						
ALEWIVES	33,461	-	33,461	-	-	-	-
BLUE PIKE	(1)	-	(1)	-	-	-	-
BOWFIN	1	38	39	(1)	-	-	-
BUFFALOFISH	27	-	27	-	-	-	-
BULLHEADS	202	279	481	-	(1)	14	14
BURBOT	113	13	126	-	135	171	306
CARP	6,583	560	7,143	3	-	-	-
CATFISH	756	99	855	(1)	-	-	-
CHUBS	10,977	184	11,161	-	-	(1)	(1)
CRAPPIE	14	-	14	-	-	-	-
EEL, COMMON	50	146	196	-	-	-	-
GIZZARD SHAD	5	-	5	-	-	-	-
GOLDFISH	163	-	163	-	-	-	-
LAKE HERRING	1,364	2,942	4,306	-	-	95	95
LAKE TROUT	275	168	443	-	-	4	4
PIKE OR PICKEREL	30	52	82	1	58	273	331
QUILLBACK	21	-	21	-	-	-	-
ROCK BASS	34	99	133	2	-	10	10
SALMON, SILVER OR COHO	2,243	-	2,243	-	-	-	-
SAUGER	(1)	8	8	-	17	11	28
SHEEPSHEAD	1,060	308	1,368	(1)	-	-	-
SMELT	3,555	9,572	13,127	-	-	-	-
STURGEON, COMMON	(1)	16	16	-	-	7	7
SUCKERS	1,324	260	1,584	31	110	212	322
SUNFISH	10	201	211	(1)	-	-	-
TULLIBEE	-	-	-	-	688	-	688
WHITE BASS	1,103	208	1,311	(1)	-	-	-
WHITEFISH:							
COMMON	2,352	1,246	3,598	-	(1)	46	46
MENOMINEE	198	28	226	-	-	-	-
WHITE PERCH	111	447	558	-	-	-	-
YELLOW PERCH	4,271	21,268	25,539	3	12	15	27
YELLOW PIKE	86	152	238	43	101	257	358
UNCLASSIFIED, FOR ANIMAL FOOD	-	1,873	1,873	4	-	68	68
TOTAL	70,389	40,167	110,556	87	1,121	1,183	2,304

SPECIES	NAMAKAN LAKE			RAINY LAKE		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	THOUSAND POUNDS					
BURBOT	(1)	1	1	5	79	84
CHUBS	-	6	6	-	40	40
PIKE OR PICKEREL	-	2	2	3	128	131
ROCK BASS	-	(1)	(1)	-	54	54
SAUGER	-	-	-	(1)	1	1
STURGEON, COMMON	-	(1)	(1)	-	(1)	(1)
SUCKERS	1	19	20	9	211	220
TULLIBEE	1	-	1	5	-	5
WHITEFISH, COMMON	5	11	16	18	41	59
YELLOW PERCH	-	-	-	(1)	1	1
YELLOW PIKE	-	3	3	4	50	54
UNCLASSIFIED, FOR ANIMAL FOOD	-	(1)	(1)	-	12	12
TOTAL	7	42	49	44	617	661

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF UNITED STATES AND CANADIAN LANDINGS, 1970 - Continued

SPECIES	TOTAL, INTERNATIONAL LAKES			GRAND TOTAL, ALL LAKES		
	UNITED STATES	CANADA	TOTAL	UNITED STATES	CANADA	TOTAL
	THOUSAND POUNDS					
ALEWIVES	-	-	-	33,461	-	33,461
BLUE PIKE	-	-	-	(1)	-	(1)
BOWFIN	-	(1)	(1)	1	38	39
BUFFALOFISH	-	-	-	27	-	27
BULLHEADS	(1)	14	14	202	293	495
BURBOT	140	251	391	253	264	517
CARP	-	3	3	6,583	563	7,146
CATFISH	-	(1)	(1)	756	99	855
CHUBS	-	46	46	10,977	230	11,207
CRAPPIE	-	-	-	14	-	14
EEL, COMMON	-	-	-	50	146	196
GIZZARD SHAD	-	-	-	5	-	5
GOLDFISH	-	-	-	163	-	163
LAKE HERRING	-	95	95	1,364	3,037	4,401
LAKE TROUT	-	4	4	275	172	447
PIKE OR PICKEREL	61	404	465	91	456	547
QUILLBACK	-	-	-	21	-	21
ROCK BASS	-	66	66	34	165	199
SALMON, SILVER OR COHO	-	-	-	2,243	-	2,243
SAUGER	17	12	29	17	20	37
SHEEPSHEAD	-	(1)	(1)	1,060	308	1,368
SMELT	-	-	-	3,555	9,572	13,127
STURGEON, COMMON	-	7	7	(1)	23	23
SUCKERS	120	473	593	1,444	733	2,177
SUNFISH	-	(1)	(1)	10	201	211
TULLIBEE	694	-	694	694	-	694
WHITE BASS	-	(1)	(1)	1,103	208	1,311
WHITEFISH:						
COMMON	23	98	121	2,375	1,344	3,719
MENOMINEE	-	-	-	198	28	226
WHITE PERCH	-	-	-	111	447	558
YELLOW PERCH	12	19	31	4,283	21,287	25,570
YELLOW PIKE	105	353	458	191	505	696
UNCLASSIFIED, FOR ANIMAL FOOD	-	84	84	-	1,957	1,957
TOTAL	1,172	1,929	3,101	71,561	42,096	113,657

1/ LESS THAN 500 POUNDS.

NOTE:--IN CANADA THE LANDINGS OF CRAPPIES HAVE BEEN INCLUDED WITH ROCK BASS.

SUMMARY OF U.S. LANDINGS, 1970

STATE	TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS
NEW YORK	534	121
PENNSYLVANIA	505	94
OHIO	6,420	1,101
MICHIGAN	21,169	2,875
INDIANA	334	78
ILLINOIS	405	84
WISCONSIN	37,715	1,916
MINNESOTA	2,479	163
TOTAL	71,561	6,432

GREAT LAKES FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF U.S. OPERATING UNITS AND FISHING EFFORT, BY LAKES, 1970

ITEM	LAKE ONTARIO	LAKE ERIE	LAKE HURON	LAKE MICHIGAN	LAKE SUPERIOR	INTER-NATIONAL LAKES	TOTAL, EXCLUSIVE OF DUPLI-CATION
	- - - - -	- - - - -	- - - - -	-NUMBER-	- - - - -	- - - - -	- - - - -
FISHERMEN:							
ON VESSELS:							
REGULAR	-	24	-	[illegible]	[illegible]	-	[illegible]
PART-TIME	2	34	16	[illegible]	[illegible]	-	238
CASUAL	-	38	16	54	[illegible]	-	121
ON BOATS AND SHORE:							
REGULAR	-	4	22	[illegible]	[illegible]	-	[illegible]
PART-TIME	8	53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CASUAL	33	154	21	[illegible]	[illegible]	3	[illegible]
TOTAL FISHERMEN	43	317	126	[illegible]	259	41	[illegible]
VESSELS, MOTOR:							
REGULAR	-	8	-	[illegible]	[illegible]	-	[illegible]
PART-TIME	1	17	5	[illegible]	[illegible]	-	112
CASUAL	-	19	6	[illegible]	13	-	[illegible]
TOTAL VESSELS	1	44	[illegible]	137	43	-	231
TOTAL GROSS TONNAGE	10	577	205	3,178	860	-	4,702
BOATS:							
MOTOR:							
REGULAR	-	1	6	3	1	-	11
PART-TIME	4	24	25	46	34	18	151
CASUAL	18	127	11	162	69	6	393
TOTAL MOTOR BOATS	22	152	42	211	104	24	555
OTHER:							
REGULAR	-	1	2	-	-	-	3
PART-TIME	1	7	6	2	-	-	16
CASUAL	2	31	2	5	-	-	40
TOTAL OTHER BOATS	3	39	10	7	-	-	59
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS	278	8,119	2,046	38,056	9,561	-	58,060
ON BOATS AND SHORE	1,196	8,123	10,541	14,913	8,853	3,998	47,624
TOTAL FISHERMEN DAYS	1,474	16,242	12,587	52,969	18,414	3,998	105,684
CRAFT:							
VESSELS	139	3,346	1,028	15,086	4,213	-	23,812
BOATS, MOTOR	609	4,475	4,143	7,890	4,923	2,035	24,075
TOTAL CRAFT DAYS	748	7,821	5,171	22,976	9,136	2,035	47,887
FISHING EFFORT:							
LIFTS:							
POUND NETS	-	32	148	5,574	1,428	1,075	8,257
TRAP NETS	1,759	11,533	6,440	2,364	1,131	-	23,227
FYKE AND HOOP NETS	714	-	84	9,008	-	32	9,838
LIFTS PER 1,000 LINEAR YARDS:							
HAUL SEINES	2	1,686	211	125	-	-	2,024
GILL NETS:							
1-1/4 - 2 INCH MESH	-	1	-	310	198	-	509
2-1/8 - 3-7/8 INCH MESH	2	7,334	1,262	32,735	8,047	-	49,381
4 - 7 INCH MESH	142	360	-	12,885	4,055	1,756	19,198
7-1/8 - 14 INCH MESH	-	8	1,611	203	-	-	1,822
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET	-	1,108	905	-	-	-	2,013
HOURS TRAWLED	-	-	-	5,371	200	-	5,571
DAYS FISHED, WEIRS	-	-	-	83	-	-	83

NOTE:--THE NUMBER OF DAYS INDICATES THAT FISHING OCCURRED REGARDLESS OF THE AMOUNT OF TIME FISHED DURING A DAY. THE NUMBER OF FISHERMEN AND CRAFT OPERATING AS REGULAR, PART-TIME, AND CASUAL IS BASED ON DAYS OF OPERATION AS FOLLOWS: REGULAR--MORE THAN 161 DAYS, PART-TIME 54 TO 161 DAYS (INCLUSIVE), AND CASUAL--LESS THAN 54 DAYS.

SUMMARY OF U.S. OPERATING UNITS AND FISHING EFFORT, BY STATES, 1970

ITEM	NEW YORK	PENNSYLVANIA	OHIO	MICHIGAN	INDIANA	ILLINOIS	WISCONSIN	MINNESOTA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER								
FISHERMEN:									
ON VESSELS:									
REGULAR	-	3	9	57	3	3	66	-	156
PART-TIME	6	5	40	138	2	-	75	-	238
CASUAL	2	12	26	47	-	2	54	9	121
ON BOATS AND SHORE:									
REGULAR	-	-	4	26	-	-	3	3	36
PART-TIME	8	2	51	119	8	2	61	64	315
CASUAL	45	4	138	157	11	14	187	48	604
TOTAL FISHERMEN	61	26	268	544	24	21	446	124	1,470
VESSELS, MOTOR:									
REGULAR	-	1	3	19	1	1	27	-	52
PART-TIME	3	2	18	67	1	-	37	-	119
CASUAL	1	4	13	23	-	1	21	4	60
TOTAL VESSELS	4	7	34	109	2	2	85	4	231
TOTAL GROSS TONNAGE	50	96	452	2,312	40	74	1,933	51	4,702
BOATS:									
MOTOR:									
REGULAR	-	-	1	8	-	-	1	1	11
PART-TIME	4	1	23	57	4	1	29	32	151
CASUAL	30	4	106	58	9	14	128	44	393
TOTAL MOTOR BOATS	34	5	130	123	13	15	158	77	555
OTHER:									
REGULAR	-	-	1	2	-	-	-	-	3
PART-TIME	1	-	7	6	-	-	2	-	16
CASUAL	2	-	29	4	-	-	5	-	40
TOTAL OTHER BOATS	3	-	37	12	-	-	7	-	59
DAYS OPERATED:									
FISHERMEN:									
ON VESSELS	834	1,375	6,066	24,862	653	666	23,381	223	58,060
ON BOATS AND SHORE	1,376	366	7,381	19,709	1,040	423	9,300	8,029	47,624
TOTAL FISHERMEN DAYS	2,210	1,741	13,447	44,571	1,693	1,089	32,681	8,252	105,684
CRAFT:									
VESSELS	417	479	2,528	10,577	236	237	9,233	105	23,812
BOATS, MOTOR	789	228	3,969	8,463	576	323	5,519	4,208	24,075
TOTAL CRAFT DAYS	1,206	707	6,497	19,040	812	560	14,752	4,313	47,887
FISHING EFFORT:									
LIFTS:									
POUND NETS	-	-	-	3,388	-	-	3,503	1,366	8,257
TRAP NETS	1,759	-	11,224	10,197	-	-	47	-	23,227
FYKE AND HOOP NETS	714	-	-	98	-	-	8,994	32	9,838
LIFTS PER 1,000 LINEAR YARDS:									
HAUL SEINES	2	-	1,579	318	-	-	125	-	2,024
GILL NETS:									
1-1/4 - 2 INCH MESH	-	-	1	41	26	-	440	1	509
2-1/8 - 3-7/8 INCH MESH	737	2,322	4,278	17,794	1,543	1,061	20,657	989	49,381
4 - 7 INCH MESH	485	15	-	13,800	25	1	2,880	1,992	19,198
7-1/8 - 14 INCH MESH	8	-	-	1,611	6	-	197	-	1,822
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET	-	-	1,108	905	-	-	-	-	2,013
HOURS TRAWLED	-	-	-	501	-	-	4,870	200	5,571
DAYS FISHED, WEIRS	-	-	-	76	7	-	-	-	83

SEE NOTE ON PAGE 309.

GREAT LAKES FISHERIES

SUMMARY OF U.S. OPERATING UNITS AND FISHING EFFORT, BY STATES AND LAKES, 1970

ITEM	NEW YORK		PENNSYLVANIA	OHIO	MICHIGAN		
	LAKE ONTARIO	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE ERIE	LAKE HURON	LAKE MICHIGAN
	NUMBER						
FISHERMEN:							
ON VESSELS:							
REGULAR	-	-	3	9	-	-	45
PART-TIME	2	4	5	40	-	16	92
CASUAL.	-	2	12	26	10	16	22
ON BOATS AND SHORE:							
REGULAR	-	-	-	4	-	20	6
PART-TIME	8	-	2	51	-	55	30
CASUAL.	33	12	4	138	10	21	98
TOTAL FISHERMEN . . .	43	18	26	268	20	128	293
VESSELS, MOTOR:							
REGULAR	-	-	1	3	-	-	15
PART-TIME	1	2	2	18	-	8	44
CASUAL.	-	1	4	13	5	8	11
TOTAL VESSELS	1	3	7	34	5	16	70
TOTAL GROSS TONNAGE .	10	40	96	452	58	205	1,645
BOATS:							
MOTOR:							
REGULAR	-	-	-	1	-	6	2
PART-TIME	4	-	1	23	-	25	15
CASUAL.	18	12	4	106	5	11	22
TOTAL MOTOR BOATS . .	22	12	5	130	5	42	39
OTHER:							
REGULAR	-	-	-	1	-	2	-
PART-TIME	1	-	-	7	-	6	-
CASUAL.	2	-	-	29	2	2	-
TOTAL OTHER BOATS . .	3	-	-	37	2	10	-
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS.	278	556	1,375	6,066	122	2,046	17,121
ON BOATS AND SHORE. . .	1,196	180	366	7,381	196	10,541	5,273
TOTAL FISHERMEN DAYS.	1,474	736	1,741	13,447	318	12,587	22,394
CRAFT:							
VESSELS	139	278	479	2,528	61	1,028	7,062
BOATS, MOTOR.	609	180	228	3,969	98	4,143	2,171
TOTAL CRAFT DAYS. . .	748	458	707	6,497	159	5,171	9,233
FISHING EFFORT:							
LIFTS:							
POUND NETS.	-	-	-	-	32	148	2,935
TRAP NETS	1,759	-	-	11,224	309	6,440	2,364
FYKE AND HOOP NETS. . .	714	-	-	-	-	84	14
LIFTS PER 1,000 LINEAR YARDS:							
HAUL SEINES	2	-	-	1,579	107	211	-
GILL NETS:							
1-1/4 - 2 INCH MESH .	-	-	-	1	-	-	11
2-1/8 - 3-7/8 INCH MESH	2	735	2,322	4,279	-	1,262	12,153
4 - 7 INCH MESH . . .	142	343	15	-	2	-	10,826
7-1/4 - 14 INCH MESH.	-	8	-	-	-	1,611	-
LIFTS PER 1,000 HOOKS, LINES, LONG OR SET . . .	-	-	-	1,108	-	905	-
HOURS TRAWLED	-	-	-	-	-	-	501
DAYS FISHED, WEIRS. . . .	-	-	-	-	-	-	76

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

GREAT LAKES FISHERIES

SUMMARY OF U.S. OPERATING UNITS AND FISHING EFFORT, BY STATES AND LAKES, 1970 - Continued

ITEM	MICHIGAN-CONTINUED	INDIANA	ILLINOIS	WISCONSIN		MINNESOTA	
	LAKE SUPERIOR	LAKE MICHIGAN	LAKE MICHIGAN	LAKE MICHIGAN	LAKE SUPERIOR	LAKE SUPERIOR	INTERNATIONAL LAKES
	NUMBER						
FISHERMEN:							
ON VESSELS:							
REGULAR	9	3	3	60	5	-	-
PART-TIME	32	2	-	5[illegible]	20	-	-
CASUAL	11	-	2	4[illegible]	8	9	-
ON BOATS AND SHORE:							
REGULAR	-	-	-	3	-	3	-
PART-TIME	34	8	2	53	5	28	36
CASUAL	28	11	14	164	23	40	8
TOTAL FISHERMEN	114	24	21	361	65	80	44
VESSELS, MOTOR:							
REGULAR	3	1	1	25	2	-	-
PART-TIME	11	1	-	27	10	-	-
CASUAL	9	-	1	17	4	4	-
TOTAL VESSELS	23	2	2	69	16	4	-
TOTAL GROSS TONNAGE	474	40	74	1,598	335	51	-
BOATS:							
MOTOR:							
REGULAR	-	-	-	1	-	1	-
PART-TIME	17	4	1	26	3	14	18
CASUAL	20	9	14	117	11	38	6
TOTAL MOTOR BOATS	37	13	15	144	14	53	24
OTHER:							
PART-TIME	-	-	-	2	-	-	-
CASUAL	-	-	-	-	-	-	-
TOTAL OTHER BOATS	-	-	-	-	-	-	-
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS	5,673	653	666	19,616	3,765	223	-
ON BOATS AND SHORE	3,699	1,040	423	8,177	1,123	4,031	3,998
TOTAL FISHERMEN DAYS	9,372	1,693	1,089	27,793	4,888	4,254	3,998
CRAFT:							
VESSELS	2,42[illegible]	236	237	7,851	1,682	105	-
BOATS, MOTOR	2,041	576	323	4,520	699	2,173	2,035
TOTAL CRAFT DAYS	4,4[illegible]	812	560	12,371	2,381	2,278	2,035
FISHING EFFORT:							
LIFTS:							
POUND NETS	773	-	-	2,639	564	291	1,075
TRAP NETS	1,054	-	-	-	47	-	-
FYKE AND HOOP NETS	-	-	-	8,994	-	-	32
LIFTS PER 1,000 LINEAR YARDS:							
HAUL SEINES	-	-	-	125	-	-	-
GILL NETS:							
1-1/4 - 2 INCH MESH	30	26	-	273	167	1	-
2-1/8 - 3-7/8 INCH MESH	4,379	1,543	1,061	17,978	2,679	989	-
4 - 7 INCH MESH	2,972	25	1	2,033	847	236	1,756
7-1/4 - 14 INCH MESH	-	6	-	197	-	-	-
HOURS TRAWLED	-	-	-	4,870	-	200	-
DAYS FISHED, WEIRS	-	-	-	-	-	-	-

SEE NOTE ON PAGE 309.

LANDINGS BY STATES, 1970

SPECIES	NEW YORK		PENNSYLVANIA		OHIO	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUE PIKE	(1)	10	100	36	-	-
BOWFIN	1,200	72	-	-	-	-
BUFFALOFISH	-	-	-	-	12,200	1,459
BULLHEADS	95,300	28,578	300	16	25,200	7,560
BURBOT	(1)	4	-	-	(1)	(1)
CARP	48,600	1,842	200	10	3,042,200	152,110
CATFISH	1,500	439	100	13	526,700	237,024
CHUBS	100	58	-	-	-	-
CRAPPIE	3,800	571	-	-	-	-
EEL, COMMON	50,300	12,586	-	-	-	-
GIZZARD SHAD	-	-	-	-	4,900	197
GOLDFISH	-	-	-	-	162,900	8,144
LAKE HERRING	700	178	(1)	3	-	-
QUILLBACK	-	-	-	-	(1)	1
ROCK BASS	12,300	1,189	-	-	21,100	844
SALMON, SILVER OR COHO	(1)	2	-	-	-	-
SHEEPSHEAD	2,900	114	2,800	144	1,037,700	51,883
SMELT	100	3	2,000	201	300	26
SUCKERS	13,700	679	1,100	49	103,800	4,153
SUNFISH	9,600	1,734	-	-	-	-
WHITE BASS	2,700	528	5,100	895	1,091,800	272,967
WHITEFISH, COMMON	600	384	(1)	16	-	-
WHITE PERCH	110,600	27,648	-	-	-	-
YELLOW PERCH	123,700	16,332	486,200	89,183	2,380,900	357,131
YELLOW PIKE	55,900	27,987	7,600	3,282	10,300	7,693
TOTAL	533,600	120,938	505,500	93,848	8,420,000	1,101,192

SPECIES	MICHIGAN		INDIANA		ILLINOIS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	5,981,400	71,727	300	1	800	7
BOWFIN	200	3	-	-	-	-
BUFFALOFISH	15,100	2,460	-	-	-	-
BULLHEADS	57,000	8,250	1,000	30	(1)	(1)
BURBOT	65,600	1,350	(1)	1	(1)	(1)
CARP	1,558,600	100,363	4,700	141	100	1
CATFISH	227,300	72,324	100	25	-	-
CHUBS	4,674,100	787,029	74,400	13,371	348,300	72,221
CRAPPIE	9,700	4,378	-	-	-	-
LAKE HERRING	992,900	129,961	1,300	320	(1)	(1)
LAKE TROUT	189,900	109,216	8,100	4,413	400	228
PIKE OR PICKEREL	100	6	(1)	(1)	-	-
QUILLBACK	21,200	675	-	-	-	-
ROCK BASS	500	228	-	-	-	-
SALMON, SILVER OR COHO	2,240,000	313,600	3,200	1,208	200	93
SAUGER	(1)	(1)	-	-	-	-
SHEEPSHEAD	16,300	1,172	-	-	-	-
SMELT	1,721,500	28,030	200	24	(1)	2
STURGEON, COMMON	-	-	-	-	(1)	4
SUCKERS	722,000	24,453	31,700	3,040	(1)	(1)
WHITE BASS	3,600	537	-	-	-	-
WHITEFISH:						
COMMON	1,904,300	1,049,627	3,800	3,037	(1)	3
MENOMINEE	178,600	38,506	-	-	-	-
YELLOW PERCH	588,300	130,468	205,800	52,297	55,400	11,351
YELLOW PIKE	500	309	-	-	-	-
TOTAL	21,168,700	2,874,672	334,600	77,908	405,200	83,910

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	WISCONSIN		MINNESOTA		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	27,478,700	309,172	-	-	33,461,200	380,907
BLUE PIKE	-	-	-	-	100	46
BOWFIN	(1)	1	-	-	1,400	76
BUFFALOFISH	-	-	-	-	27,300	3,919
BULLHEADS	22,900	1,972	400	42	202,100	46,448
BURBOT	47,000	3,136	140,100	4,838	252,700	9,329
CARP	1,928,200	61,196	-	-	6,582,600	315,663
CATFISH	100	31	-	-	755,800	309,856
CHUBS	5,841,500	1,046,304	38,900	4,671	10,977,300	1,923,654
CRAPPIE	-	-	-	-	13,500	4,949
EEL, COMMON	-	-	-	-	50,300	12,586
GIZZARD SHAD	-	-	-	-	4,900	197
GOLDFISH	-	-	-	-	162,900	8,144
LAKE HERRING	184,300	20,569	185,100	18,510	1,364,300	169,541
LAKE TROUT	57,200	33,696	19,600	12,730	275,200	160,283
PIKE OR PICKEREL	30,200	4,331	60,800	6,239	91,100	10,576
QUILLBACK	-	-	-	-	21,200	676
ROCK BASS	-	-	-	-	33,900	2,261
SALMON, SILVER OR COHO	(1)	4	-	-	2,243,400	314,907
SAUGER	-	-	17,000	3,392	17,000	3,392
SHEEPSHEAD	-	-	-	-	1,059,700	53,313
SMELT	792,700	36,677	1,038,400	31,152	3,555,200	96,115
STURGEON, COMMON	(1)	2	-	-	(1)	6
SUCKERS	432,300	11,064	139,300	2,501	1,443,900	45,939
SUNFISH	-	-	-	-	9,600	1,734
TULLIBEE	-	-	694,600	24,028	694,600	24,028
WHITE BASS	-	-	-	-	1,103,200	274,927
WHITEFISH:						
COMMON	439,400	276,285	26,800	8,535	2,374,900	1,337,887
MENOMINEE	18,100	2,744	900	95	197,600	41,345
WHITE PERCH	-	-	-	-	110,600	27,648
YELLOW PERCH	430,700	103,807	12,100	1,461	4,283,100	762,030
YELLOW PIKE	11,600	5,431	104,700	45,099	190,600	89,801
TOTAL	37,714,900	1,916,422	2,478,700	163,293	71,561,200	6,432,183

1/ LESS THAN 50 POUNDS OR 50 CENTS.

LANDINGS BY LAKES AND STATES, 1970

SPECIES	LAKE ONTARIO		LAKE ERIE			
	NEW YORK		NEW YORK		PENNSYLVANIA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUE PIKE	-	-	(1)	10	100	36
BOWFIN	1,200	72	-	-	-	-
BULLHEADS	95,200	28,553	100	25	300	16
BURBOT	(1)	2	(1)	2	-	-
CARP	21,800	1,307	26,800	535	200	10
CATFISH	1,200	366	300	73	100	13
CHUBS	100	58	-	-	-	-
CRAPPIE	3,800	571	-	-	-	-
EEL, COMMON	50,300	12,585	(1)	1	-	-
LAKE HERRING	700	177	(1)	1	(1)	3
ROCK BASS	11,200	899	1,100	290	-	-
SALMON, SILVER OR COHO	(1)	2	-	-	-	-
SHEEPSHEAD	100	3	2,800	111	2,800	144
SMELT	100	3	-	-	2,000	201
SUCKERS	6,500	390	7,200	289	1,100	49
SUNFISH	9,600	1,734	-	-	-	-
WHITE BASS	1,200	172	1,500	356	5,100	895
WHITEFISH, COMMON	600	384	-	-	(1)	16
WHITE PERCH	110,600	27,648	-	-	-	-
YELLOW PERCH	18,600	3,716	105,100	12,616	486,200	89,183
YELLOW PIKE	200	123	55,700	27,864	7,600	3,282
TOTAL	333,000	78,765	200,600	42,173	505,500	93,848

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKES AND STATES, 1970 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	OHIC		MICHIGAN		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUE PIKE	-	-	-	-	100	46
BUFFALOFISH	12,200	1,459	15,000	2,456	27,200	3,915
BULLHEADS	25,200	7,560	(1)	2	25,600	7,603
BURBOT	(1)	(1)	-	-	(1)	2
CARP	3,042,200	152,110	331,900	16,139	3,401,100	168,794
CATFISH	526,700	237,024	1,700	614	528,800	237,724
EEL, COMMON	-	-	-	-	(1)	1
GIZZARD SHAD	4,900	197	-	-	4,900	197
GOLDFISH	162,900	8,144	-	-	162,900	8,144
LAKE HERRING	-	-	-	-	(1)	4
QUILLBACK	(1)	1	200	12	200	13
ROCK BASS	21,100	844	-	-	22,200	1,134
SHEEPSHEAD	1,037,700	51,883	4,200	175	1,047,500	52,313
SMELT	300	26	-	-	2,300	227
SUCKERS	103,800	4,153	10,500	219	122,600	4,710
WHITE BASS	1,091,800	272,967	3,500	490	1,101,900	274,708
WHITEFISH, COMMON	-	-	-	-	(1)	16
YELLOW PERCH	2,380,900	357,131	52,700	7,801	3,024,900	466,731
YELLOW PIKE	10,300	7,693	400	276	74,000	39,115
TOTAL	8,420,000	1,101,192	420,100	28,184	9,546,200	1,265,397

SPECIES	LAKE HURON		LAKE MICHIGAN			
	MICHIGAN		MICHIGAN		INDIANA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	5,981,400	71,727	300	1
BOWFIN	200	3	-	-	-	-
BUFFALOFISH	100	4	-	-	-	-
BULLHEADS	56,400	8,150	600	98	1,000	30
BURBOT	(1)	5	51,300	1,008	(1)	1
CARP	1,224,200	84,164	2,400	56	4,700	141
CATFISH	225,600	71,710	-	-	100	25
CHUBS	11,800	2,307	4,028,400	718,650	74,400	13,371
CRAPPIE	9,700	4,378	-	-	-	-
LAKE HERRING	(1)	1	700	162	1,300	320
LAKE TROUT	-	-	75,200	41,957	8,100	4,413
PIKE OR PICKEREL	-	-	100	6	(1)	(1)
QUILLBACK	21,000	663	-	-	-	-
ROCK BASS	500	223	(1)	5	-	-
SALMON, SILVER OR COHO	-	-	2,240,000	313,600	3,200	1,208
SAUGER	-	-	(1)	(1)	-	-
SHEEPSHEAD	12,100	997	(1)	(1)	-	-
SMELT	-	-	1,700,300	26,352	200	24
SUCKERS	140,200	8,865	521,800	13,719	31,700	3,040
WHITE BASS	100	47	(1)	(1)	-	-
WHITEFISH:						
COMMON	172,900	100,073	1,417,800	743,935	3,800	3,037
MENOMINEE	(1)	2	176,700	38,233	-	-
YELLOW PERCH	535,600	122,656	(1)	4	205,800	52,297
YELLOW PIKE	100	29	(1)	4	-	-
TOTAL	2,410,500	404,277	16,196,700	1,969,516	334,[illegible]00	77,908

SPECIES	LAKE MICHIGAN - CONTINUED					
	ILLINOIS		WISCONSIN		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	800	7	27,478,700	309,172	33,461,200	380,907
BOWFIN	-	-	(1)	1	(1)	1
BULLHEADS	(1)	(1)	22,900	1,972	24,500	2,100
BURBOT	(1)	(1)	41,400	2,965	92,700	3,974
CARP	100	1	1,927,800	61,188	1,935,000	61,386
CATFISH	-	-	100	31	200	56
CHUBS	348,300	72,221	5,195,300	965,273	9,646,400	1,769,515
LAKE HERRING	(1)	(1)	10,500	2,374	12,500	2,856
LAKE TROUT	400	228	3,400	1,366	87,100	47,964
PIKE OR PICKEREL	-	-	30,200	4,331	30,300	4,337
ROCK BASS	-	-	-	-	(1)	5
SALMON, SILVER OR COHO	200	93	(1)	4	2,243,400	314,905
SAUGER	-	-	-	-	(1)	(1)
SHEEPSHEAD	-	-	-	-	(1)	(1)

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKES AND STATES, 1970 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED					
	ILLINOIS		WISCONSIN		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SMELT	(1)	2	276,400	18,425	1,976,900	44,803
STURGEON, COMMON	(1)	4	(1)	2	(1)	6
SUCKERS	(1)	(1)	414,900	10,339	968,400	27,098
WHITE BASS	-	-	-	-	(1)	(1)
WHITEFISH:						
COMMON	(1)	3	308,000	200,477	1,729,600	947,452
MENOMINEE	-	-	2,300	514	179,000	38,747
YELLOW PERCH	55,400	11,351	430,700	103,807	691,900	167,459
YELLOW PIKE	-	-	11,600	5,431	11,600	5,435
TOTAL	405,200	83,910	36,154,200	1,687,672	53,090,700	3,819,006

SPECIES	LAKE SUPERIOR					
	MICHIGAN		WISCONSIN		MINNESOTA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	(1)	(1)	(1)	(1)	-	-
BURBOT	14,300	337	5,600	171	100	(1)
CARP	100	4	400	8	-	-
CHUBS	633,900	66,072	646,200	81,031	38,900	4,671
LAKE HERRING	992,200	129,798	173,800	18,195	185,100	18,510
LAKE TROUT	114,700	67,259	53,800	32,330	19,600	12,730
SMELT	21,200	1,678	516,300	18,252	1,038,400	31,152
SUCKERS	49,500	1,650	17,400	725	19,500	194
WHITEFISH:						
COMMON	313,600	205,619	131,400	75,808	4,000	1,997
MENOMINEE	1,900	271	15,800	2,230	900	95
YELLOW PERCH	(1)	7	-	-	-	-
TOTAL	2,141,400	472,695	1,560,700	228,750	1,306,500	69,349

SPECIES	LAKE SUPERIOR - CONTINUED		TOTAL, GREAT LAKES		LAKE OF THE WOODS	
	TOTAL				MINNESOTA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	(1)	(1)	33,461,200	380,907	-	-
BLUE PIKE	-	-	100	46	-	-
BOWFIN	-	-	1,400	76	-	-
BUFFALOFISH	-	-	27,300	3,919	-	-
BULLHEADS	-	-	201,700	46,406	400	42
BURBOT	20,000	508	112,700	4,491	135,000	4,662
CARP	500	12	6,582,600	315,663	-	-
CATFISH	-	-	755,800	309,856	-	-
CHUBS	1,319,000	151,774	10,977,300	1,923,654	-	-
CRAPPIE	-	-	13,500	4,949	-	-
EEL, COMMON	-	-	50,300	12,586	-	-
GIZZARD SHAD	-	-	4,900	197	-	-
GOLDFISH	-	-	162,900	8,144	-	-
LAKE HERRING	1,351,100	166,503	1,364,300	169,541	-	-
LAKE TROUT	188,100	112,319	275,200	160,283	-	-
PIKE OR PICKEREL	-	-	30,300	4,337	57,700	5,769
QUILLBACK	-	-	21,200	676	-	-
ROCK BASS	-	-	33,900	2,261	-	-
SALMON, SILVER OR COHO	-	-	2,243,400	314,907	-	-
SAUGER	-	-	(1)	(1)	17,000	3,391
SHEEPSHEAD	-	-	1,059,700	53,313	-	-
SMELT	1,575,900	51,082	3,555,200	96,115	-	-
STURGEON, COMMON	-	-	(1)	6	-	-
SUCKERS	86,400	2,569	1,324,100	43,632	110,500	2,146
SUNFISH	-	-	9,600	1,734	-	-
TULLIBEE	-	-	-	-	687,400	23,787
WHITE BASS	-	-	1,103,200	274,927	-	-
WHITEFISH:						
COMMON	449,000	283,424	2,352,100	1,331,349	(1)	13
MENOMINEE	18,600	2,596	197,600	41,345	-	-
WHITE PERCH	-	-	110,600	27,648	-	-
YELLOW PERCH	(1)	7	4,271,000	760,569	12,100	1,457
YELLOW PIKE	-	-	85,900	44,702	100,800	43,338
TOTAL	5,008,600	770,794	70,389,000	6,338,239	1,120,900	84,605

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKES AND STATES, 1970 - Continued

SPECIES	NAMAKAN LAKE		RAINY LAKE	
	MINNESOTA		MINNESOTA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BURBOT	300	11	4,700	165
PIKE OR PICKEREL	-	-	3,100	470
SAUGER	-	-	(1)	1
SUCKERS	700	14	8,600	147
TULLIBEE	1,500	44	5,700	197
WHITEFISH, COMMON	5,200	1,612	17,600	4,913
YELLOW PERCH	-	-	(1)	4
YELLOW PIKE	-	-	3,900	1,761
TOTAL	7,700	1,681	43,600	7,658

SPECIES	TOTAL, INTERNATIONAL LAKES		TOTAL, ALL LAKES	
	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	33,461,200	380,907
BLUE PIKE	-	-	100	46
BOWFIN	-	-	1,400	76
BUFFALOFISH	-	-	27,300	3,919
BULLHEADS	400	42	202,100	46,448
BURBOT	140,000	4,838	252,700	9,329
CARP	-	-	6,582,600	315,663
CATFISH	-	-	755,800	309,856
CHUBS	-	-	10,977,300	1,923,654
CRAPPIE	-	-	13,500	4,949
EEL, COMMON	-	-	50,300	12,586
GIZZARD SHAD	-	-	4,900	197
GOLDFISH	-	-	162,900	8,144
LAKE HERRING	-	-	1,364,300	169,541
LAKE TROUT	-	-	275,200	160,283
PIKE OR PICKEREL	60,800	6,239	91,100	10,576
QUILLBACK	-	-	21,200	676
ROCK BASS	-	-	33,900	2,261
SALMON, SILVER OR COHO	-	-	2,243,400	314,907
SAUGER	17,000	3,392	17,000	3,392
SHEEPSHEAD	-	-	1,059,700	53,313
SMELT	-	-	3,555,200	96,115
STURGEON, COMMON	-	-	(1)	6
SUCKERS	119,800	2,307	1,443,900	45,939
SUNFISH	-	-	9,600	1,734
TULLIBEE	694,600	24,028	694,600	24,028
WHITE BASS	-	-	1,103,200	274,927
WHITEFISH:				
COMMON	22,800	6,538	2,374,900	1,337,887
MENOMINEE	-	-	197,600	41,345
WHITE PERCH	-	-	110,600	27,648
YELLOW PERCH	12,100	1,461	4,283,100	762,030
YELLOW PIKE	104,700	45,099	190,600	89,801
TOTAL	1,172,200	93,944	[illegible]	[illegible]

1/ LESS THAN 50 POUNDS OR 50 CENTS.

GREAT LAKES FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	UNIT	NEW YORK		PENNSYLVANIA		OHIO	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS	QUANTITY	DOLLARS
CARP, SMOKED	POUNDS	-	-	-	-	(1)	(1)
CATFISH, DRESSED AND SKINNED, FROZEN	DO	-	-	-	-	(1)	(1)
CHUBS, SMOKED	DO	-	-	-	-	(1)	(1)
COD:							
FILLETS BREADED, RAW AND COOKED FROZEN	DO	(1)	(1)	-	-	1,464,307	953,018
SPECIALTIES, FROZEN (IN SAUCE, BITES, ETC.)	DO	-	-	-	-	(1)	(1)
FLOUNDER:							
FILLETS, BREADED, RAW AND COOKED FROZEN	DO	-	-	-	-	(1)	(1)
SPECIALTIES, FROZEN (IN SAUCES)	DO	-	-	-	-	(1)	(1)
HADDOCK:							
FILLETS BREADED, RAW AND COOKED, FROZEN	DO	67,600	51,260	-	-	(1)	(1)
SPECIALTIES, FROZEN (IN SAUCES)	DO	-	-	-	-	(1)	(1)
HALIBUT FILLETS AND STEAKS, FRESH AND FROZEN	DO	(1)	(1)	-	-	(1)	(1)
HERRING:							
LAKE, SMOKED	DO	-	-	-	-	(1)	(1)
SEA:							
SPECIALTIES, FRESH, CURED AND REFRIGERATED (IN WINE AND CREAM SAUCES)	DO	-	-	-	-	(1)	(1)
SALTED	DO	-	-	-	-	(1)	(1)
LAKE TROUT FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-	(1)	(1)
MACKEREL, ATLANTIC, FILLETS, FRESH	DO	(1)	(1)	-	-	-	-
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED, FROZEN	DO	-	-	-	-	1,659,545	926,822
POLLOCK FILLETS, FROZEN, BREADED, COOKED	DO	(1)	(1)	-	-	-	-
SABLEFISH, SMOKED	DO	-	-	-	-	(1)	(1)
SALMON:							
STEAKS, FRESH AND FROZEN	DO	(1)	(1)	-	-	(1)	(1)
SALTED	DO	-	-	-	-	(1)	(1)
SMOKED	DO	-	-	(1)	(1)	(1)	(1)
SAUGER FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-	(1)	(1)
SNAPPER, RED, FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-	(1)	(1)
STRIPED BASS FILLETS, FRESH	DO	-	-	(1)	(1)	(1)	(1)
SWORDFISH STEAKS, FROZEN	DO	-	-	-	-	(1)	(1)
WHITE BASS FILLETS, FRESH AND FROZEN	DO	-	-	-	-	(1)	(1)
WHITEFISH:							
FILLETS, FRESH AND FROZEN	DO	44,000	64,100	(1)	(1)	64,000	71,000
SMOKED	DO	38,100	38,810	(1)	(1)	(1)	(1)
YELLOW PERCH FILLETS:							
FRESH AND FROZEN	DO	13,600	15,321	353,000	318,650	695,800	556,970
BREADED, RAW AND COOKED, FROZEN	DO	-	-	-	-	1,023,601	1,027,580
YELLOW PIKE FILLETS:							
FRESH AND FROZEN	DO	63,100	101,375	(1)	(1)	125,000	176,350
BREADED RAW, FROZEN	DO	-	-	-	-	(1)	(1)
SHRIMP:							
FRESH AND FROZEN:							
COOKED AND PEELED	DO	(1)	(1)	-	-	(1)	(1)
BREADED, RAW AND COOKED	DO	(1)	(1)	-	-	(1)	(1)
SMOKED	DO	(1)	(1)	-	-	-	-
OYSTERS, BREADED RAW, FROZEN	DO	-	-	-	-	(1)	(1)
SCALLOPS, SEA, BREADED RAW, FROZEN	DO	-	-	-	-	(1)	(1)
UNCLASSIFIED:							
FRESH AND FROZEN PACKAGED, FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH	DO	466,725	936,200	119,200	158,330	40,308,019	15,463,154
CURED	DO	(1)	(1)	-	-	313,600	337,857
TOTAL	-	-	1,207,066	-	476,980	-	19,512,751

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	MICHIGAN		ILLINOIS AND INDIANA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
ALEWIVES, CANNED (PET FOOD) . . .	STANDARD CASES	-	-	(1)	(1)
ANCHOVY PASTE, CANNED	DO	(1)	(1)	-	-
CARP FILLETS, FRESH AND FROZEN. .	POUNDS	-	-	(1)	(1)
CHUBS, SMOKED	DO	187,600	140,638	2,298,400	1,454,040
COD:					
FILLETS, FRESH AND FROZEN . . .	DO	(1)	(1)	-	-
LUTEFISK.	DO	-	-	(1)	(1)
EELS, SMOKED.	DO	-	-	(1)	(1)
FLOUNDER FILLETS, FRESH	DO	(1)	(1)	(1)	(1)
GROUPER FILLETS, BREADED RAW, FROZEN	DO	-	-	(1)	(1)
HADDOCK FILLETS, FRESH.	DO	(1)	(1)	-	-
HERRING:					
LAKE:					
FRESH AND FROZEN FILLETS. . .	DO	7,100	4,035	-	-
SALTED.	DO	(1)	(1)	-	-
SMOKED.	DO	5,500	3,850	-	-
SEA:					
SPECIALTIES, FRESH, CURED AND REFRIGERATED (IN WINE AND CREAM SAUCES).	DO	(1)	(1)	(1)	(1)
SALTED.	DO	-	-	(1)	(1)
LAKE TROUT:					
FILLETS, FRESH AND FROZEN . . .	DO	72,450	86,305	50,000	52,100
SMOKED.	DO	4,600	4,666	(1)	(1)
OCEAN PERCH FILLETS BREADED, RAW AND COOKED, FROZEN	DO	(1)	(1)	(1)	(1)
PIKE OR PICKEREL FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	(1)	(1)	(1)	(1)
SALMON:					
CANNED:					
EGGS FOR BAIT	STANDARD CASES	(1)	(1)	-	-
SPECIALTIES (PASTE)	DO	(1)	(1)	-	-
SALTED.	POUNDS	(1)	(1)	-	-
SMOKED.	DO	(1)	(1)	(1)	(1)
SAUGER FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SNAPPER, RED, FILLETS, FRESH AND FROZEN	DO	(1)	(1)	(1)	(1)
STURGEON, SMOKED.	DO	-	-	(1)	(1)
WHITE BASS:					
DRESSED, FROZEN.	DO	(1)	(1)	-	-
FILLETS, FRESH AND FROZEN . . .	DO	(1)	(1)	-	-
WHITE FISH:					
FILLETS, FRESH AND FROZEN . . .	DO	431,700	497,015	308,000	327,300
SMOKED.	DO	5,600	5,336	(1)	(1)
WHITING, SMOKED	DO	-	-	(1)	(1)
YELLOW PERCH, FILLETS:					
FRESH AND FROZEN.	DO	257,300	193,280	2/ 64,000	2/ 56,350
BREADED, RAW AND COOKED, FROZEN	DO	(1)	(1)	(1)	(1)
YELLOW PIKE FILLETS, FRESH AND FROZEN.	DO	97,200	117,390	2/ 127,000	2/ 189,400
LOBSTER, CANNED (PASTE)	STANDARD CASES	(1)	(1)	-	-
SHRIMP:					
BREADED, RAW AND COOKED	POUNDS	-	-	(1)	(1)
CANNED (PASTES)	STANDARD CASES	(1)	(1)	-	-
SCALLOPS, SEA, BREADED RAW, FROZEN	POUNDS	(1)	(1)	-	-
FROG LEGS, BREADED RAW, FROZEN. .	DO	-	-	(1)	(1)
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED, FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH .	DO	887,868	1,152,625	1,994,724	549,836
CANNED.	STANDARD CASES	(1)	(1)	(1)	(1)
CURED	POUNDS	2,045,000	2,913,800	4,483,500	2,744,800
TOTAL.	-	-	5,118,940	-	5,373,926

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	UNIT	WISCONSIN		MINNESOTA	
		QUANTITY	DOLLARS	QUANTITY	DOLLARS
ALEWIVES:					
MEAL AND SCRAP	TONS	(1)	(1)	-	-
OIL	1,000 LBS	(1)	(1)	-	-
BUFFALOFISH STEAKS, FRESH	POUNDS	(1)	(1)	-	-
CARP, SMOKED	DO	38,000	14,140	-	-
CHUBS, SMOKED	DO	1,885,900	1,006,782	(1)	(1)
COD:					
FILLETS:					
FRESH AND FROZEN	DO	-	-	(1)	(1)
BREADED, RAW AND COOKED	DO	(1)	(1)	-	-
STEAKS, FROZEN	DO	(1)	(1)	-	-
SPECIALTIES, FROZEN (IN SAUCES, BITES, ETC.)	DO	(1)	(1)	-	-
LUTEFISK	DO	-	-	(1)	(1)
FLOUNDER, BREADED, RAW OR COOKED, FROZEN	DO	(1)	(1)	-	-
HADDOCK STEAKS, FROZEN	DO	(1)	(1)	-	-
HALIBUT FILLETS AND STEAKS, FRESH AND FROZEN	DO	(1)	(1)	-	-
HERRING:					
LAKE:					
FRESH AND FROZEN:					
HEADED AND DRESSED	DO	-	-	(1)	(1)
FILLETS	DO	-	-	(1)	(1)
SALTED	DO	(1)	(1)	(1)	(1)
SMOKED	DO	(1)	(1)	(1)	(1)
SEA:					
SPECIALTIES, FRESH, CURED AND REFRIGERATED (IN WINE AND CREAM SAUCES)	DO	(1)	(1)	-	-
SALTED	DO	-	-	(1)	(1)
LAKE TROUT:					
FILLETS, FRESH AND FROZEN	DO	29,100	31,205	(1)	(1)
SMOKED	DO	60,000	53,725	(1)	(1)
OCEAN PERCH FILLETS:					
FRESH	DO	-	-	(1)	(1)
BREADED, RAW AND COOKED, FROZEN	DO	(1)	(1)	-	-
PIKE OR PICKEREL FILLETS, FRESH AND FROZEN	DO	(1)	(1)	-	-
SABLEFISH, SMOKED	DO	25,500	18,600	-	-
SALMON:					
STEAKS, FRESH AND FROZEN	DO	37,900	36,640	-	-
SMOKED	DO	63,000	69,100	(1)	(1)
SAUGER FILLETS:					
FRESH AND FROZEN	DO	(1)	(1)	-	-
BREADED RAW, FROZEN	DO	(1)	(1)	-	-
SMELT, BREADED AND COOKED FROZEN	DO	(1)	(1)	-	-
WHITEFISH:					
FILLETS, FRESH AND FROZEN	DO	112,700	118,450	(1)	(1)
CANNED (CAVIAR)	STANDARD CASES	(1)	(1)	-	-
SMOKED	POUNDS	118,500	95,550	(1)	(1)
WHITING, SMOKED	DO	(1)	(1)	-	-
YELLOW PERCH, FILLETS:					
FRESH AND FROZEN	DO	635,500	578,845	-	-
BREADED, RAW AND COOKED, FROZEN	DO	340,200	266,690	-	-
YELLOW PIKE:					
DRESSED, FROZEN	DO	(1)	(1)	-	-
FILLETS:					
FRESH AND FROZEN	DO	55,900	66,200	(1)	(1)
BREADED RAW, FROZEN	DO	(1)	(1)	-	-
SHRIMP, FRESH AND FROZEN, BREADED, RAW AND COOKED	DO	(1)	(1)	-	-
SCALLOPS, SEA, BREADED RAW, FROZEN	DO	(1)	(1)	-	-
FROG LEGS, BREADED RAW, FROZEN	DO	(1)	(1)	-	-
UNCLASSIFIED:					
FRESH AND FROZEN PACKAGED, FILLETS, STEAKS, STICKS, PORTIONS, AND OTHER FISH AND SHELLFISH	DO	1,183,314	1,157,210	2,006,950	716,250
CANNED	STANDARD CASES	(1)	(1)	-	-
CURED	POUNDS	825,520	539,872	(1)	(1)
INDUSTRIAL	-	-	(1)	-	-
TOTAL	-		4,053,009	-	716,250

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH.

2/ A SMALL PRODUCTION OF YELLOW PERCH AND YELLOW PIKE FILLETS PRODUCED IN INDIANA HAVE BEEN INCLUDED WITH ILLINOIS.

NOTE:-SOME OF THE PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

GREAT LAKES FISHERIES

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	4,915
FROZEN	20,348
CANNED AND INDUSTRIAL	1,093
CURED	10,103
TOTAL	36,459

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE	THOUSAND DOLLARS
NEW YORK	1,207
PENNSYLVANIA	477
OHIO	19,513
ILLINOIS AND INDIANA	5,374
MICHIGAN	5,119
MINNESOTA	716
WISCONSIN	4,053
TOTAL	36,459

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
NEW YORK	9	86	84	12	87	81	21	173	165
PENNSYLVANIA	3	16	12	3	3	3	6	19	15
OHIO	17	526	499	12	27	21	29	553	520
ILLINOIS AND INDIANA	17	520	486	27	284	272	44	804	758
MICHIGAN	27	263	214	25	94	82	52	357	296
MINNESOTA	3	79	36	5	11	11	8	90	47
WISCONSIN	30	308	276	9	58	45	39	366	321
TOTAL	106	1,798	1,607	93	564	515	199	2,362	2,122

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

LAKE ONTARIO - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	TRAP NETS	FYKE AND HOOP NETS	GILL NETS	
				2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH
	NUMBER				
FISHERMEN:					
ON VESSELS, PART-TIME . .	-	-	-	-	2
ON BOATS AND SHORE:					
PART-TIME	2	4	6	-	-
CASUAL.	4	20	6	1	2
TOTAL FISHERMEN . . .	6	24	12	1	4
VESSELS, MOTOR, PART-TIME .	-	-	-	-	1
TOTAL VESSELS	-	-	-	-	1
TOTAL GROSS TONNAGE .	-	-	-	-	10
BOATS:					
MOTOR:					
PART-TIME	1	2	3	-	-
CASUAL.	2	10	3	1	2
TOTAL MOTOR BOATS . .	3	12	6	1	2
OTHER:					
PART-TIME	1	-	-	-	-
CASUAL.	2	-	-	-	-
TOTAL OTHER BOATS . .	3	-	-	-	-
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS.	-	-	-	-	278
ON BOATS AND SHORE. . .	20	718	390	1	67
TOTAL FISHERMEN DAYS.	20	718	390	1	345
CRAFT:					
VESSELS	-	-	-	-	139
BOATS, MOTOR.	10	359	195	1	44
TOTAL CRAFT DAYS. . .	10	359	195	1	183
FISHING EFFORT:					
LIFTS	-	1,759	714	-	-
LIFTS PER 1,000 LINEAR YARDS	2	-	-	2	142

SEE NOTE ON PAGE 309.

LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	GILL NETS				LINES, LONG OR SET WITH HOOKS
				1-1/4 - 2 INCH MESH	2-1/8-3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	
	NUMBER							
FISHERMEN:								
ON VESSELS:								
REGULAR	-	-	-	-	24	-	-	-
PART-TIME	-	-	22	-	10	2	-	-
CASUAL.	2	2	26	-	12	7	2	-
ON BOATS AND SHORE:								
REGULAR	4	-	-	-	-	-	-	-
PART-TIME	19	-	6	-	4	-	-	24
CASUAL.	62	-	12	1	14	13	-	86
TOTAL FISHERMEN . . .	87	2	66	1	64	22	2	110

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LAKE ERIE - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970 - Continued

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	GILL NETS 1-1/4 - 2 INCH MESH	GILL NETS 2-1/8-3-7/8 INCH MESH	GILL NETS 4 - 7 INCH MESH	GILL NETS 7-1/8 - 14 INCH MESH	LINES, LONG OR SET WITH HOOKS
	NUMBER							
VESSELS, MOTOR								
REGULAR	-	-	-	-	5	-	-	-
PART-TIME	-	-	11	-	[illegible]	1	-	-
CASUAL	1	1	13	-	[illegible]	3	1	-
TOTAL VESSELS	1	1	24	-	19	4	1	-
TOTAL GROSS TONNAGE	13	12	301	-	255	[illegible]	17	-
BOATS:								
MOTOR:								
REGULAR	1	-	-	-	-	-	-	-
PART-TIME	7	-	3	-	2	-	-	12
CASUAL	31	-	6	1	14	13	-	78
TOTAL MOTOR BOATS	39	-	9	1	16	13	-	90
OTHER:								
REGULAR	1	-	-	-	-	-	-	-
PART-TIME	7	-	-	-	-	-	-	-
CASUAL	30	-	-	-	-	-	-	-
TOTAL OTHER BOATS	38	-	-	-	-	-	-	-
DAYS OPERATED:								
FISHERMEN:								
ON VESSELS	66	14	2,436	-	5,418	153	32	-
ON BOATS AND SHORE	3,344	-	574	1	682	99	-	3,423
TOTAL FISHERMEN DAYS	3,410	14	3,010	1	6,100	252	32	3,423
CRAFT:								
VESSELS	33	7	1,218	-	1,996	76	16	-
BOATS, MOTOR	1,262	-	287	1	440	99	-	2,386
TOTAL CRAFT DAYS	1,295	7	1,505	1	2,436	175	16	2,386
FISHING EFFORT:								
LIFTS	-	32	11,533	-	-	-	-	-
LIFTS PER 1,000 LINEAR YARDS	1,686	-	-	1	7,334	360	8	-
LIFTS PER 1,000 HOOKS	-	-	-	-	-	-	-	1,108

SEE NOTE ON PAGE 309.

LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS 2-1/8 - 3-7/8 INCH MESH	GILL NETS 7-1/8 - 14 INCH MESH	LINES, LONG OR SET WITH HOOKS
	NUMBER						
FISHERMEN:							
ON VESSELS:							
PART-TIME	-	-	10	-	[illegible]	-	-
CASUAL	-	-	10	-	5	4	-
ON BOATS AND SHORE:							
REGULAR	-	-	-	-	[illegible]	3	-
PART-TIME	6	-	12	-	11	30	29
CASUAL	23	6	27	2	10	8	6
TOTAL FISHERMEN	29	6	59	2	41	45	35
VESSELS, MOTOR:							
PART-TIME	-	-	-	-	3	-	-
CASUAL	-	-	5	-	4	2	-
TOTAL VESSELS	-	-	10	-	[illegible]	2	-
TOTAL GROSS TONNAGE	-	-	91	-	131	29	-

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LAKE HURON - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970 - Continued

ITEM	HAUL SEINES, COMMON	POUND NETS	TRAP NETS	FYKE AND HOOP NETS	GILL NETS		LINES, LONG OR SET WITH HOOKS
					2-1/8 - 3-7/8 INCH MESH	7-1/8 - 14 INCH MESH	
	NUMBER						
BOATS:							
MOTOR:							
REGULAR	-	-	-	-	2	1	-
PART-TIME	2	-	6	-	3	11	13
CASUAL	8	3	12	1	4	4	3
TOTAL MOTOR BOATS	10	3	18	1	9	16	16
OTHER:							
PART-TIME	2	-	-	-	-	-	-
CASUAL	8	-	-	-	-	-	-
TOTAL OTHER BOATS	10	-	-	-	-	-	-
DAYS OPERATED:							
FISHERMEN:							
ON VESSELS	-	-	1,268	-	760	18	-
ON BOATS AND SHORE	663	134	1,699	84	2,046	3,499	2,416
TOTAL FISHERMEN DAYS	663	134	2,967	84	2,806	3,517	2,416
CRAFT:							
VESSELS	-	-	639	-	380	9	-
BOATS, MOTOR	222	67	794	42	629	1,280	1,109
TOTAL CRAFT DAYS	222	67	1,433	42	1,009	1,289	1,109
FISHING EFFORT:							
LIFTS	-	148	6,440	84	-	-	-
LIFTS PER 1,000 LINEAR YARDS	211	-	-	-	1,262	1,611	-
LIFTS PER 1,000 HOOKS	-	-	-	-	-	-	905

SEE NOTE ON PAGE 309.

LAKE MICHIGAN - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	WEIRS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
	NUMBER					
FISHERMEN:						
ON VESSELS:						
REGULAR	-	3	-	-	-	-
PART-TIME	-	16	-	11	14	-
CASUAL	-	8	-	9	8	7
ON BOATS AND SHORE:						
PART-TIME	2	2	-	17	-	16
CASUAL	12	-	54	79	15	36
TOTAL FISHERMEN	14	29	54	116	37	59
VESSELS, MOTOR:						
REGULAR	-	1	-	-	-	-
PART-TIME	-	8	-	5	7	-
CASUAL	-	4	-	4	4	3
TOTAL VESSELS	-	13	-	9	11	3
TOTAL GROSS TONNAGE	-	385	-	119	123	28
BOATS:						
MOTOR:						
PART-TIME	1	1	-	8	-	8
CASUAL	6	-	-	39	7	17
TOTAL MOTOR BOATS	7	1	-	47	7	25
OTHER:						
PART-TIME	1	-	-	-	-	-
CASUAL	6	-	-	-	-	-
TOTAL OTHER BOATS	7	-	-	-	-	-

SEE NOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LAKE MICHIGAN - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970 - Continued

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS	WEIRS	POUND NETS	TRAP NETS	FYKE AND HOOP NETS
	NUMBER					
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS.	-	2,409	-	1,113	1,200	33
ON BOATS AND SHORE. . .	340	192	516	3,502	278	2,336
TOTAL FISHERMEN DAYS.	340	2,601	516	4,615	1,478	2,369
CRAFT:						
VESSELS	-	1,100	-	504	600	14
BOATS, MOTOR.	170	96	-	1,701	133	1,157
TOTAL CRAFT DAYS. . .	170	1,196	-	2,205	733	1,171
FISHING EFFORT:						
LIFTS	-	-	-	5,574	2,364	9,008
LIFTS PER 1,000 LINEAR YARDS.	125	-	-	-	-	-
HOURS TRAWLED	-	5,371	-	-	-	-
DAYS FISHED	-	-	76	-	-	-

ITEM	GILL NETS				DIP NETS
	1-1/4 - 2 INCH MESH	2-1/8 - 3-7/8 INCH MESH	4 - 7 INCH MESH	7-1/8 - 14 INCH MESH	
	NUMBER				
FISHERMEN:					
ON VESSELS:					
REGULAR	-	87	3	-	-
PART-TIME	3	72	45	-	-
CASUAL.	10	72	54	3	-
ON BOATS AND SHORE:					
PART-TIME	5	33	7	2	-
CASUAL.	17	138	57	12	3
TOTAL FISHERMEN . . .	35	402	166	17	3
VESSELS, MOTOR:					
REGULAR	-	29	1	-	-
PART-TIME	1	33	20	-	-
CASUAL.	5	35	23	1	-
TOTAL VESSELS	6	97	44	1	-
TOTAL GROSS TONNAGE .	86	2,405	1,062	10	-
BOATS, MOTOR:					
PART-TIME	2	16	3	1	-
CASUAL.	9	109	27	12	-
TOTAL MOTOR BOATS . .	11	125	30	13	-
DAYS OPERATED:					
FISHERMEN:					
ON VESSELS.	260	26,777	6,255	9	-
ON BOATS AND SHORE. . .	726	4,932	1,701	383	7
TOTAL FISHERMEN DAYS.	986	31,709	7,956	392	7
CRAFT:					
VESSELS	100	10,068	2,697	3	-
BOATS, MOTOR.	385	3,019	[illegible]	[illegible]	-
TOTAL CRAFT DAYS. . .	[illegible]	[illegible]	[illegible]	[illegible]	-
FISHING EFFORT:					
LIFTS PER 1,000 LINEAR YARDS.	310	32,735	12,665	203	-
DAYS FISHED	-	-	-	-	

SEE NOTE ON PAGE 309.

LAKE SUPERIOR - OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	OTTER TRAWLS	POUND NETS	TRAP NETS	GILL NETS 1-1/4 - 2 INCH MESH	GILL NETS 2-1/8 - 3-7/8 INCH MESH	GILL NETS 4 - 7 INCH MESH
	---NUMBER---					
FISHERMEN:						
ON VESSELS:						
REGULAR	-	-	-	-	3	-
PART-TIME	-	2	4	8	42	10
CASUAL	3	6	2	17	36	52
ON BOATS AND SHORE:						
REGULAR	-	-	-	-	3	-
PART-TIME	-	6	-	2	32	30
CASUAL	-	16	4	11	68	40
TOTAL FISHERMEN	3	30	10	38	184	132
VESSELS, MOTOR:						
REGULAR	-	-	-	-	1	-
PART-TIME	-	1	2	3	19	4
CASUAL	1	2	1	8	17	23
TOTAL VESSELS	1	3	3	11	37	27
TOTAL GROSS TONNAGE	16	48	40	175	768	611
BOATS, MOTOR:						
REGULAR	-	-	-	-	1	-
PART-TIME	-	3	-	-	16	15
CASUAL	-	7	2	6	53	28
TOTAL MOTOR BOATS	-	10	2	6	70	43
DAYS OPERATED:						
FISHERMEN:						
ON VESSELS	15	240	550	980	5,831	1,945
ON BOATS AND SHORE	-	738	78	395	4,828	2,814
TOTAL FISHERMEN DAYS	15	978	628	1,375	10,659	4,759
CRAFT:						
VESSELS	5	105	275	399	2,574	855
BOATS, MOTOR	-	369	39	282	2,601	1,632
TOTAL CRAFT DAYS	5	474	314	681	5,175	2,487
FISHING EFFORT:						
LIFTS	-	1,428	1,131	-	-	-
LIFTS PER 1,000 LINEAR YARDS	-	-	-	198	8,047	4,055
HOURS TRAWLED	200	-	-	-	-	-

SEE NOTE ON PAGE 309.

LAKE OF THE WOODS, NAMAKAN LAKE, AND RAINY LAKE
OPERATING UNITS AND FISHING EFFORT BY GEAR, 1970

ITEM	POUND NETS	FYKE AND HOOP NETS	GILL NETS
			4 - 7 INCH MESH
	NUMBER		
FISHERMEN, ON BOATS AND SHORE:			
PART-TIME	4	-	34
CASUAL.	2	4	4
TOTAL FISHERMEN . . .	6	4	38
BOATS, MOTOR:			
PART-TIME	2	-	16
CASUAL.	1	2	4
TOTAL MOTOR BOATS . .	3	2	20
DAYS OPERATED:			
FISHERMEN, ON BOATS AND SHORE.	376	28	3,594
CRAFT, BOATS, MOTOR . . .	188	14	1,833
FISHING EFFORT:			
LIFTS	1,075	32	-
LIFTS PER 1,000 LINEAR YARDS.	-	-	1,[illegible]

SEE NOTE ON PAGE 309.

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970

SPECIES	LAKE ONTARIO					
	NEW YORK					
	HAUL SEINES, COMMON		TRAP NETS		FYKE AND HOOP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	(1)	2	1,200	69	-	-
BULLHEADS	2,400	710	86,300	25,891	6,100	1,831
BURBOT.	-	-	(1)	2	-	-
CARP.	17,600	1,056	4,200	251	-	-
CATFISH	-	-	900	274	100	14
CRAPPIE	200	30	2,900	430	700	111
EEL, COMMON	100	29	49,800	12,448	400	108
LAKE HERRING.	-	-	100	12	-	-
ROCK BASS	-	-	5,000	399	-	-
SHEEPSHEAD.	-	-	100	3	-	-
SUCKERS	-	-	5,000	302	1,000	59
SUNFISH	-	-	9,200	1,665	100	17
WHITE BASS.	-	-	(1)	(1)	-	-
WHITE PERCH	1,400	347	6,700	1,685	1,100	267
YELLOW PERCH.	-	-	6,100	1,226	700	140
YELLOW PIKE	-	-	200	109	(1)	10
TOTAL	21,700	2,174	177,700	44,766	10,200	2,557

SPECIES	LAKE ONTARIO - CONTINUED					
	NEW YORK - CONTINUED					
	GILL NETS				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	-	-	(1)	1	1,200	72
BULLHEADS	-	-	400	121	95,200	28,553
BURBOT.	-	-	-	-	(1)	2
CARP.	-	-	-	-	21,800	1,307
CATFISH	-	-	200	78	1,200	366
CHUBS	-	-	100	58	100	58
CRAPPIE	-	-	-	-	3,800	571
EEL, COMMON	-	-	-	-	50,300	12,585
LAKE HERRING.	-	-	600	165	700	177
ROCK BASS	100	8	6,100	492	11,200	899
SALMON, SILVER OR COHO. . .	(1)	2	-	-	(1)	2
SHEEPSHEAD.	-	-	-	-	100	3
SMELT	-	-	100	3	100	3
SUCKERS	-	-	500	29	6,500	390
SUNFISH	-	-	300	52	9,600	1,734
WHITE BASS.	-	-	1,200	172	1,200	172
WHITEFISH, COMMON	-	-	600	384	600	384
WHITE PERCH	600	140	100,800	25,209	110,600	27,648
YELLOW PERCH.	-	-	11,800	2,350	18,600	3,716
YELLOW PIKE	-	-	(1)	4	200	123
TOTAL	700	150	122,700	29,118	333,000	78,765

SPECIES	LAKE ERIE							
	NEW YORK							
	GILL NETS						TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH		7-1/8 - 14 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUE PIKE	(1)	4	(1)	6	-	-	(1)	10
BULLHEADS	-	-	100	25	-	-	100	25
BURBOT.	(1)	2	-	-	-	-	(1)	2
CARP.	1,100	21	300	6	25,400	508	26,800	535
CATFISH	100	17	200	52	(1)	4	300	73
EEL, COMMON	-	-	(1)	1	-	-	(1)	1
LAKE HERRING.	-	-	(1)	1	-	-	(1)	1
ROCK BASS	1,100	284	(1)	6	-	-	1,100	290
SHEEPSHEAD.	300	13	2,500	98	-	-	2,800	111
SUCKERS	1,400	55	5,800	234	-	-	7,200	289
WHITE BASS.	1,300	308	200	48	-	-	1,500	356
YELLOW PERCH.	104,600	12,560	500	56	-	-	105,100	12,616
YELLOW PIKE	7,500	3,764	48,200	24,100	-	-	55,700	27,864
TOTAL	117,400	17,028	57,800	24,633	25,400	512	200,600	42,173

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	PENNSYLVANIA					
	GILL NETS				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BLUE PIKE	100	36	-	-	100	36
BULLHEADS	(1)	1	300	15	300	16
CARP	100	7	100	3	200	10
CATFISH	100	10	(1)	3	100	13
LAKE HERRING	(1)	3	-	-	(1)	3
SHEEPSHEAD	1,200	53	1,600	91	2,800	144
SMELT	2,000	201	-	-	2,000	201
SUCKERS	700	26	400	23	1,100	49
WHITE BASS	4,900	865	200	30	5,100	895
WHITEFISH, COMMON	(1)	12	(1)	4	(1)	16
YELLOW PERCH	486,100	89,172	100	11	486,200	89,183
YELLOW PIKE	4,000	1,648	3,600	1,634	7,600	3,282
TOTAL	499,200	92,034	6,300	1,814	505,500	93,848

SPECIES	LAKE ERIE - CONTINUED					
	OHIO					
	HAUL SEINES, COMMON		TRAP NETS		GILL NETS	
					1-1/4 - 2 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	8,100	969	4,100	490	-	-
BULLHEADS	17,000	5,113	6,900	2,066	-	-
CARP	2,961,800	148,090	79,900	3,993	(1)	(1)
CATFISH	287,500	129,382	133,200	59,932	-	-
GIZZARD SHAD	2,900	117	2,000	80	-	-
GOLDFISH	162,900	8,144	-	-	-	-
QUILLBACK	-	-	-	-	(1)	1
ROCK BASS	-	-	21,100	844	-	-
SHEEPSHEAD	669,700	33,485	364,800	18,241	(1)	(1)
SUCKERS	48,400	1,935	54,900	2,198	(1)	(1)
WHITE BASS	321,600	80,391	756,300	189,086	(1)	8
YELLOW PERCH	38,700	5,810	1,223,400	183,510	100	7
YELLOW PIKE	8,500	6,346	1,800	1,347	-	-
TOTAL	4,527,100	419,782	2,648,400	461,787	100	16

SPECIES	LAKE ERIE - CONTINUED					
	OHIO - CONTINUED					
	GILL NETS - CONTINUED		LINES, LONG OR SET WITH HOOKS		TOTAL	
	2-1/8 - 3-7/8 INCH MESH					
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	-	-	12,200	1,459
BULLHEADS	(1)	1	1,300	380	25,200	7,560
BURBOT	-	-	(1)	(1)	(1)	(1)
CARP	(1)	2	500	25	3,042,200	152,110
CATFISH	300	137	105,700	47,573	526,700	237,024
GIZZARD SHAD	-	-	-	-	4,900	197
GOLDFISH	-	-	(1)	(1)	162,900	8,144
QUILLBACK	-	-	-	-	(1)	1
ROCK BASS	-	-	-	-	21,100	844
SHEEPSHEAD	2,500	122	700	35	1,037,700	51,883
SMELT	300	26	-	-	300	26
SUCKERS	500	20	-	-	103,800	4,153
WHITE BASS	13,900	3,481	(1)	1	1,091,800	272,967
YELLOW PERCH	1,118,600	167,787	100	17	2,380,900	357,131
YELLOW PIKE	-	-	-	-	10,300	7,693
TOTAL	1,136,100	171,576	108,300	48,031	8,420,000	1,101,192

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE ERIE - CONTINUED					
	MICHIGAN					
	HAUL SEINES, COMMON		POUND NETS		TRAP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	13,100	2,090	400	60	1,500	306
BULLHEADS	-	-	-	-	(1)	2
CARP	315,600	15,781	2,700	54	12,500	283
CATFISH	800	320	-	-	900	294
QUILLBACK	-	-	-	-	200	12
SHEEPSHEAD	-	-	100	2	4,100	173
SUCKERS	-	-	2,000	39	8,500	179
WHITE BASS	-	-	(1)	4	3,500	486
YELLOW PERCH	-	-	3,700	443	49,000	7,358
YELLOW PIKE	-	-	-	-	200	168
TOTAL	329,500	18,191	8,900	602	80,400	9,261

SPECIES	LAKE ERIE - CONTINUED				LAKE HURON	
	MICHIGAN - CONTINUED				MICHIGAN	
	GILL NETS, 4 - 7 INCH MESH		TOTAL		HAUL SEINES, COMMON	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	15,000	2,456	-	-
BULLHEADS	-	-	(1)	2	4,800	788
CARP	1,100	21	331,900	16,139	178,800	9,688
CATFISH	-	-	1,700	614	6,800	2,277
QUILLBACK	-	-	200	12	-	-
SHEEPSHEAD	-	-	4,200	175	-	-
SUCKERS	(1)	1	10,500	219	7,800	497
WHITE BASS	-	-	3,500	490	-	-
YELLOW PERCH	-	-	52,700	7,801	800	182
YELLOW PIKE	200	108	400	276	-	-
TOTAL	1,300	130	420,100	28,184	199,000	13,432

SPECIES	LAKE HURON - CONTINUED					
	MICHIGAN - CONTINUED					
	POUND NETS		TRAP NETS		FYKE AND HOOP NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	200	3	-	-
BUFFALOFISH	-	-	100	4	-	-
BULLHEADS	300	32	49,700	7,007	1,400	309
BURBOT	-	-	(1)	5	-	-
CARP	(1)	1	156,400	5,609	400	18
CATFISH	-	-	152,100	50,802	700	186
CRAPPIE	-	-	9,700	4,376	-	-
LAKE HERRING	-	-	(1)	1	-	-
QUILLBACK	-	-	19,800	631	-	-
ROCK BASS	-	-	500	223	-	-
SHEEPSHEAD	-	-	12,100	995	-	-
SUCKERS	-	-	129,000	8,286	100	19
WHITE BASS	-	-	100	47	-	-
WHITEFISH:						
COMMON	12,100	5,584	160,800	94,489	-	-
MENOMINEE	-	-	(1)	2	-	-
YELLOW PERCH	200	48	269,400	66,193	3,300	937
YELLOW PIKE	-	-	100	29	-	-
TOTAL	12,600	5,665	960,000	238,702	5,900	1,469

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE HURON - CONTINUED					
	MICHIGAN - CONTINUED					
	GILL NETS				LINES, LONG OR SET WITH HOOKS	
	2-1/8 - 3-7/8 INCH MESH		7-1/8 - 14 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BULLHEADS	200	12	-	-	(1)	2
CARP	300	4	888,200	68,840	100	4
CATFISH	2,100	695	(1)	8	63,900	17,742
CHUBS	11,800	2,307	-	-	-	-
CRAPPIE	(1)	2	-	-	-	-
QUILLBACK	-	-	1,200	32	-	-
ROCK BASS	(1)	(1)	-	-	-	-
SHEEPSHEAD	(1)	(1)	(1)	2	(1)	(1)
SUCKERS	3,300	63	-	-	-	-
YELLOW PERCH	261,900	55,296	-	-	-	-
TOTAL	279,600	58,379	889,400	68,882	64,000	17,748

SPECIES	LAKE HURON - CONTINUED		LAKE MICHIGAN			
	MICHIGAN - CONTINUED		MICHIGAN			
	TOTAL		OTTER TRAWLS		POUND NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	1,893,500	30,855	4,085,300	40,850
BOWFIN	200	3	-	-	-	-
BUFFALOFISH	100	4	-	-	-	-
BULLHEADS	56,400	8,150	-	-	-	-
BURBOT	(1)	5	-	-	3,100	54
CARP	1,224,200	84,164	1,400	16	700	30
CATFISH	225,600	71,710	-	-	-	-
CHUBS	11,800	2,307	6,000	575	-	-
CRAPPIE	9,700	4,378	-	-	-	-
LAKE HERRING	(1)	1	-	-	(1)	(1)
PIKE OR PICKEREL	-	-	(1)	(1)	100	5
QUILLBACK	21,000	663	-	-	-	-
ROCK BASS	500	223	-	-	(1)	5
SAUGER	-	-	(1)	(1)	-	-
SHEEPSHEAD	12,100	997	-	-	-	-
SMELT	-	-	58,300	1,186	1,632,200	24,104
SUCKERS	140,200	8,865	32,600	536	391,900	11,015
WHITE BASS	100	47	-	-	(1)	(1)
WHITEFISH:						
COMMON	172,900	100,073	1,900	1,274	199,100	98,563
MENOMINEE	(1)	2	-	-	(1)	1
YELLOW PERCH	535,600	122,656	(1)	3	(1)	(1)
YELLOW PIKE	100	29	-	-	(1)	4
TOTAL	2,410,500	404,277	1,993,700	34,445	6,312,400	174,631

SPECIES	LAKE MICHIGAN - CONTINUED					
	MICHIGAN - CONTINUED					
	TRAP NETS		FYKE AND HOOP NETS		WEIRS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	(1)	(1)	(1)	(1)	-	-
BULLHEADS	600	98	(1)	(1)	-	-
BURBOT	100	2	100	2	-	-
CARP	200	5	(1)	(1)	-	-
PIKE OR PICKEREL	-	-	(1)	1	-	-
SALMON, SILVER OR COHO	-	-	-	-	2,240,000	313,600
SHEEPSHEAD	(1)	(1)	-	-	-	-
SUCKERS	49,300	1,011	300	11	-	-
WHITEFISH:						
COMMON	473,800	244,987	-	-	-	-
MENOMINEE	1,300	247	-	-	-	-
TOTAL	525,300	246,350	400	14	2,240,000	313,600

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED					
	MICHIGAN - CONTINUED					
	GILL NETS					
	1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	1,200	10	1,400	12
BULLHEADS	-	-	-	-	(1)	(1)
BURBOT	-	-	-	-	48,000	950
CARP	-	-	(1)	(1)	100	5
CHUBS	-	-	4,020,100	717,691	2,300	384
LAKE HERRING	-	-	700	160	(1)	2
LAKE TROUT	-	-	5,200	2,638	70,000	39,319
SMELT	4,900	901	600	21	4,300	140
SUCKERS	(1)	1	19,300	476	28,400	669
WHITEFISH:						
COMMON	-	-	-	-	743,000	399,111
MENOMINEE	100	9	169,400	37,014	5,900	962
YELLOW PERCH	-	-	(1)	(1)	(1)	1
TOTAL	5,000	911	4,216,500	758,010	903,400	441,555

SPECIES	LAKE MICHIGAN - CONTINUED					
	MICHIGAN - CONTINUED		INDIANA			
	TOTAL		GILL NETS			
			1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	5,981,400	71,727	-	-	300	1
BULLHEADS	600	98	-	-	-	-
BURBOT	51,300	1,008	-	-	(1)	1
CARP	2,400	56	-	-	-	-
CATFISH	-	-	(1)	5	100	20
CHUBS	4,028,400	718,650	-	-	74,400	13,371
LAKE HERRING	700	162	-	-	1,300	320
LAKE TROUT	75,200	41,957	300	155	7,400	4,049
PIKE OR PICKEREL	100	6	(1)	(1)	-	-
ROCK BASS	(1)	5	-	-	-	-
SALMON, SILVER OR COHO	2,240,000	313,600	(1)	10	3,200	1,198
SAUGER	(1)	(1)	-	-	-	-
SHEEPSHEAD	(1)	(1)	-	-	-	-
SMELT	1,700,300	26,352	-	-	200	24
SUCKERS	521,800	13,719	200	9	23,500	2,008
WHITE BASS	(1)	(1)	-	-	-	-
WHITEFISH:						
COMMON	1,417,800	743,935	-	-	1,800	1,289
MENOMINEE	176,700	38,233	-	-	-	-
YELLOW PERCH	(1)	4	3,900	1,562	201,900	50,735
YELLOW PIKE	(1)	4	-	-	-	-
TOTAL	16,196,700	1,969,516	4,400	1,741	314,100	73,016

SPECIES	LAKE MICHIGAN - CONTINUED					
	INDIANA - CONTINUED					
	GILL NETS - CONTINUED.				TOTAL	
	4 - 7 INCH MESH		7-1/8 - 14 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	-	-	300	1
BULLHEADS	-	-	1,000	30	1,000	30
BURBOT	(1)	(1)	-	-	(1)	1
CARP	-	-	4,700	141	4,700	141
CATFISH	-	-	-	-	100	25
CHUBS	-	-	-	-	74,400	13,371
LAKE HERRING	-	-	-	-	1,300	320
LAKE TROUT	400	209	-	-	8,100	4,413
PIKE OR PICKEREL	-	-	-	-	(1)	(1)
SALMON, SILVER OR COHO	-	-	-	-	3,200	1,208
SMELT	-	-	-	-	200	24
SUCKERS	8,000	1,023	-	-	31,700	3,040
WHITEFISH, COMMON	2,000	1,748	-	-	3,800	3,037
YELLOW PERCH	-	-	-	-	205,800	52,297
TOTAL	10,400	2,980	5,700	171	334,600	77,908

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED					
	ILLINOIS					
	GILL NETS				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	800	7	-	-	800	7
BULLHEADS	(1)	(1)	-	-	(1)	(1)
BURBOT	(1)	(1)	-	-	(1)	(1)
CARP	100	1	-	-	100	1
CHUBS	348,300	72,221	-	-	348,300	72,221
LAKE HERRING	(1)	(1)	-	-	(1)	(1)
LAKE TROUT	400	224	(1)	4	400	228
SALMON, SILVER OR COHO	200	93	-	-	200	93
SMELT	(1)	2	-	-	(1)	2
STURGEON, COMMON	(1)	4	-	-	(1)	4
SUCKERS	(1)	(1)	(1)	(1)	(1)	(1)
WHITEFISH, COMMON	(1)	3	-	-	(1)	3
YELLOW PERCH	55,400	11,351	-	-	55,400	11,351
TOTAL	405,200	83,906	(1)	4	405,200	83,910

SPECIES	LAKE MICHIGAN - CONTINUED					
	WISCONSIN					
	HAUL SEINES, COMMON		OTTER TRAWLS		POUND NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	-	-	16,103,700	195,422	11,326,100	113,257
BULLHEADS	700	65	-	-	-	-
BURBOT	100	4	100	1	-	-
CARP	1,493,500	45,147	10,000	116	(1)	1
CHUBS	-	-	14,900	150	-	-
LAKE HERRING	-	-	-	-	400	73
LAKE TROUT	-	-	(1)	14	-	-
PIKE OR PICKEREL	100	6	(1)	2	200	16
SMELT	-	-	51,500	3,207	152,800	5,837
SUCKERS	3,800	110	108,100	1,763	10,100	156
WHITEFISH, COMMON	-	-	-	-	136,100	89,623
YELLOW PERCH	-	-	(1)	3	3,200	805
YELLOW PIKE	-	-	-	-	100	33
TOTAL	1,498,200	45,332	16,288,300	200,678	11,629,000	209,801

SPECIES	LAKE MICHIGAN - CONTINUED					
	WISCONSIN - CONTINUED					
	FYKE AND HOOP NETS		GILL NETS			
			1-1/4 - 2 INCH MESH		2-1/8 - 3-7/8 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	41,600	416	300	3	6,800	71
BOWFIN	(1)	1	-	-	-	-
BULLHEADS	21,900	1,855	-	-	300	52
BURBOT	25,600	2,565	(1)	(1)	2,400	93
CARP	15,600	341	(1)	(1)	100	5
CATFISH	100	31	-	-	-	-
CHUBS	-	-	-	-	5,180,400	965,123
LAKE HERRING	-	-	(1)	3	1,900	289
LAKE TROUT	-	-	-	-	100	20
PIKE OR PICKEREL	22,200	3,481	-	-	300	35
SALMON, SILVER OR COHO	-	-	(1)	1	(1)	1
SMELT	22,400	448	46,800	8,589	2,600	313
STURGEON, COMMON	-	-	-	-	(1)	2
SUCKERS	159,900	3,357	800	28	28,600	763
WHITEFISH:						
COMMON	-	-	100	60	600	459
MENOMINEE	-	-	-	-	2,300	514
YELLOW PERCH	199,500	44,714	200	30	227,300	58,142
YELLOW PIKE	9,400	4,430	-	-	400	152
TOTAL	518,200	61,639	48,200	8,714	5,454,100	1,026,034

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE MICHIGAN - CONTINUED					
	WISCONSIN - CONTINUED					
	GILL NETS - CONTINUED				TOTAL	
	4 - 7 INCH MESH		7-1/8 - 14 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	200	3	-	-	27,478,700	309,172
BOWFIN.	-	-	-	-	(1)	1
BULLHEADS	-	-	-	-	22,900	1,972
BURBOT.	13,200	302	(1)	(1)	41,400	2,965
CARP.	2,000	82	406,600	15,496	1,927,800	61,188
CATFISH	-	-	-	-	100	31
CHUBS	-	-	-	-	5,195,300	965,273
LAKE HERRING.	8,200	2,009	-	-	10,500	2,374
LAKE TROUT.	3,300	1,332	-	-	3,400	1,366
PIKE OR PICKEREL.	7,400	791	-	-	30,200	4,331
SALMON, SILVER OR COHO. . .	(1)	2	-	-	(1)	4
SMELT	300	31	-	-	276,400	18,425
STURGEON, COMMON.	-	-	-	-	(1)	2
SUCKERS	103,600	4,162	-	-	414,900	10,339
WHITEFISH:						
COMMON.	171,200	110,335	-	-	308,000	200,477
MENOMINEE	-	-	-	-	2,300	514
YELLOW PERCH.	500	113	-	-	430,700	103,807
YELLOW PIKE	1,700	816	-	-	11,600	5,431
TOTAL	311,600	119,978	406,600	15,496	36,154,200	1,687,672

SPECIES	LAKE SUPERIOR					
	MICHIGAN					
	POUND NETS		TRAP NETS		GILL NETS	
					1-1/4 - 2 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BURBOT.	(1)	(1)	-	-	-	-
CARP.	100	2	-	-	-	-
LAKE HERRING.	(1)	2	-	-	(1)	(1)
LAKE TROUT.	(1)	22	1,000	667	-	-
SMELT	17,200	344	-	-	2,800	1,191
SUCKERS	100	4	2,000	74	(1)	(1)
WHITEFISH:						
COMMON.	15,700	9,235	104,500	73,676	(1)	1
MENOMINEE	(1)	8	-	-	300	72
TOTAL	33,100	9,617	107,500	74,417	3,100	1,264

SPECIES	LAKE SUPERIOR - CONTINUED					
	MICHIGAN - CONTINUED					
	GILL NETS - CONTINUED				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES.	(1)	(1)	(1)	(1)	(1)	(1)
BURBOT.	9,600	196	4,700	141	14,300	337
CARP.	-	-	(1)	2	100	4
CHUBS	633,900	66,072	(1)	(1)	633,900	66,072
LAKE HERRING.	990,600	129,495	1,600	301	992,200	129,798
LAKE TROUT.	14,200	9,195	99,500	57,375	114,700	67,259
SMELT	100	7	1,100	136	21,200	1,678
SUCKERS	11,400	246	36,000	1,326	49,500	1,650
WHITEFISH:						
COMMON.	1,200	774	192,200	121,933	313,600	205,619
MENOMINEE	1,400	165	200	26	1,900	271
YELLOW PERCH.	-	-	(1)	7	(1)	7
TOTAL	1,662,400	206,150	335,300	181,247	2,141,400	472,695

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE SUPERIOR - CONTINUED					
	WISCONSIN					
	POUND NETS		TRAP NETS		GILL NETS 1-1/4 - 2 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BURBOT	100	4	-	-	-	-
CARP	400	8	-	-	-	-
LAKE HERRING	100	17	600	78	100	17
LAKE TROUT	800	615	(1)	14	-	-
SMELT	475,500	10,768	-	-	40,500	7,461
SUCKERS	6,700	189	6,600	400	100	6
WHITEFISH:						
COMMON	72,700	43,161	600	335	-	-
MENOMINEE	-	-	-	-	(1)	3
TOTAL	556,300	54,762	7,800	827	40,700	7,487

SPECIES	LAKE SUPERIOR - CONTINUED					
	WISCONSIN - CONTINUED					
	GILL NETS - CONTINUED				TOTAL	
	2-1/8 - 3-7/8 INCH MESH		4 - 7 INCH MESH			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
ALEWIVES	(1)	(1)	-	-	(1)	(1)
BURBOT	4,900	141	600	26	5,600	171
CARP	-	-	-	-	400	8
CHUBS	646,200	81,031	-	-	646,200	81,031
LAKE HERRING	172,900	18,055	100	28	173,800	18,195
LAKE TROUT	900	588	52,100	31,113	53,800	32,330
SMELT	200	9	100	14	516,300	18,252
SUCKERS	1,100	33	2,900	97	17,400	725
WHITEFISH:						
COMMON	-	-	58,100	32,312	131,400	75,808
MENOMINEE	15,800	2,226	(1)	1	15,800	2,230
TOTAL	842,000	102,083	113,900	63,591	1,560,700	228,750

SPECIES	LAKE SUPERIOR - CONTINUED					
	MINNESOTA					
	OTTER TRAWLS		POUND NETS		GILL NETS 2-1/8 - 3-7/8 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BURBOT	-	-	-	-	100	(1)
CHUBS	700	69	-	-	38,200	4,582
LAKE HERRING	400	42	-	-	184,700	18,468
SMELT	130,000	3,900	908,400	27,252	-	-
SUCKERS	200	1	16,300	163	3,000	30
WHITEFISH, MENOMINEE	-	-	-	-	900	95
TOTAL	131,300	4,032	924,700	27,415	226,900	23,175

SPECIES	LAKE SUPERIOR - CONTINUED				LAKE OF THE WOODS	
	MINNESOTA - CONTINUED				MINNESOTA	
	GILL NETS - CONTINUED 4 - 7 INCH MESH		TOTAL		POUND NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BULLHEADS	-	-	-	-	100	9
BURBOT	-	-	100	(1)	97,200	3,356
CHUBS	-	-	38,900	4,671	-	-
LAKE HERRING	-	-	185,100	18,510	-	-
LAKE TROUT	19,600	12,730	19,600	12,730	-	-

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY LAKE, STATE, AND CATCH BY GEAR, 1970 - Continued

SPECIES	LAKE SUPERIOR - CONTINUED				LAKE OF THE WOODS	
	MINNESOTA - CONTINUED				MINNESOTA	
	GILL NETS - CONTINUED 4 - 7 INCH MESH		TOTAL		POUND NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
PIKE OR PICKEREL.	-	-	-	-	10,400	1,036
SAUGER.	-	-	-	-	4,000	791
SMELT	-	-	1,038,400	31,152	-	-
SUCKERS	-	-	19,500	194	13,700	267
TULLIBEE.	-	-	-	-	172,500	5,969
WHITEFISH:						
COMMON.	4,000	1,997	4,000	1,997	(1)	2
MENOMINEE	-	-	900	95	-	-
YELLOW PERCH.	-	-	-	-	3,500	419
YELLOW PIKE	-	-	-	-	16,700	7,200
TOTAL	23,600	14,727	1,306,500	69,349	318,100	19,049

SPECIES	LAKE OF THE WOODS - CONTINUED					
	MINNESOTA - CONTINUED					
	FYKE AND HOOP NETS		GILL NETS, 4 - 7 INCH MESH		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BULLHEADS	100	9	200	24	400	42
BURBOT.	700	25	37,100	1,281	135,000	4,662
PIKE OR PICKEREL.	300	31	47,000	4,702	57,700	5,769
SAUGER.	(1)	1	13,000	2,599	17,000	3,391
SUCKERS	100	1	96,700	1,878	110,500	2,146
TULLIBEE.	(1)	(1)	514,900	17,818	687,400	23,787
WHITEFISH, COMMON	-	-	(1)	11	(1)	13
YELLOW PERCH.	(1)	6	8,600	1,032	12,100	1,457
YELLOW PIKE	100	36	84,000	36,102	100,800	43,338
TOTAL	1,300	109	801,500	65,447	1,120,900	84,605

SPECIES	NAMAKAN LAKE		RAINY LAKE	
	MINNESOTA		MINNESOTA	
	GILL NETS, 4 - 7 INCH MESH		GILL NETS, 4 - 7 INCH MESH	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BURBOT.	300	11	4,700	165
PIKE OR PICKEREL.	-	-	3,100	470
SAUGER.	-	-	(1)	1
SUCKERS	700	14	8,600	147
TULLIBEE.	1,500	44	5,700	197
WHITEFISH, COMMON	5,200	1,612	17,600	4,913
YELLOW PERCH.	-	-	(1)	4
YELLOW PIKE	-	-	3,900	1,761
TOTAL	7,700	1,681	43,600	7,658

1/ LESS THAN 50 POUNDS OR 50 CENTS.

SECTION 9 - MISSISSIPPI RIVER FISHERIES

Commercial landings of fish and shellfish from the waters of the Mississippi River and its tributaries were 74.9 million pounds worth $9.9 million to the fishermen--an increase of 5.5 million pounds and $1.3 million compared with 1969. The increase resulted principally from improved landings of buffalofish, 21.3 million pounds (up 28 percent); carp, 18.5 million (up 10 percent); catfish and bullheads, 14.4 million (up 23 percent); and sheepshead, 5.6 million pounds (up 28 percent). However, landings of crawfish (1.8 million pounds) and mussel shells (5.8 million pounds) declined compared with 1969.

Five items--buffalofish, carp, catfish and bullheads, sheepshead, and mussel shells--accounted for 88 percent of the volume and 85 percent of the value. The landings were made by 13,919 fishermen, using 13,100 motor boats and 179 other boats--a gain of 2,438 fishermen, 2,777 motor boats, and 11 other boats compared with the previous year.

Wisconsin and Arkansas led in volume with 11.0 million pounds each, followed by Minnesota (8.8 million) and Louisiana (8.1 million pounds). Arkansas led in value of landings with $2.3 million, followed by Louisiana with $1.4 million.

The value of processed products was $27.1 million--$2.3 million more than in 1969. Frozen packaged fishery products accounted for $20.1 million (74 percent) of the total, and increased 9 percent compared with 1969: fresh packaged fishery products accounted for $1.8 million (7 percent) of the total, and increased 167 percent compared with 1969. Canned and industrial fishery products ($3.1 million) and cured fishery products ($2.1 million) were 11 percent and 8 percent, respectively, of the total value of processed fishery products.

Beginning with the 1964 report, the Mississippi River section has included some data from river systems not connected with or draining into the Mississippi River or its tributaries. For example, salmon are reported from waters draining into the Pacific Ocean. Landings are also reported from river systems draining north into Hudson Bay and south into the Gulf of Mexico.

The following organizations helped collect the data appearing in this section: Alabama Department of Conservation, Division of Game and Fish; Arizona Game and Fish Department; Arkansas Game and Fish Commission, Division of Fisheries; Colorado Game, Fish and Parks Department; Idaho Fish and Game Department; Illinois Department of Conservation, Division of Fisheries; Indiana Department of Conservation, Division of Fish and Game, Section of Fish Management; Iowa State Conservation Commission, Division of Fish and Game; Kansas Forestry, Fish and Game Commission, Fisheries Division; Kentucky Department of Fish and Wildlife Resources; Louisiana Wild Life and Fisheries Commission; Minnesota Department of Conservation, Division of Game and Fish, Section of Fisheries; Mississippi Game and Fish Commission; Missouri Conservation Commission; Montana Department of Fish and Game, Fisheries Management; Nebraska Game, Forestation and Parks Commission, Fishery Division; New Mexico Department of Game and Fish; North Dakota Game and Fish Department, Fisheries Division; Oklahoma Department of Wildlife Conservation; Division of Fisheries; South Dakota Department of Game, Fish and Parks; Tennessee Game and Fish Commission, Fish Management Division; Texas Game and Fish Commission; Inland Fisheries; Utah State Fish and Game Department; Wisconsin Conservation Department, Fish Management Division; Wyoming Game and Fish Commission; and the Tennessee Valley Authority, Fish and Game Branch.

MISSISSIPPI RIVER FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

STATE	FISH		SHELLFISH ET AL.		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALABAMA	2,482	380	14	2	2,496	382
ARKANSAS	10,905	2,318	76	28	10,981	2,346
IDAHO	1,403	81	-	-	1,403	81
ILLINOIS	4,692	575	125	11	4,817	586
INDIANA	140	24	628	70	768	94
IOWA	3,445	365	(1)	(1)	3,445	365
KANSAS	32	10	600	21	632	31
KENTUCKY	2,551	453	565	44	3,116	497
LOUISIANA	6,134	840	1,943	604	8,077	1,444
MINNESOTA	8,760	989	1	(1)	8,761	989
MISSISSIPPI	3,209	578	-	-	3,209	578
MISSOURI	800	157	-	-	800	157
MONTANA	956	82	-	-	956	82
NEBRASKA	232	12	-	-	232	12
NORTH DAKOTA	300	27	-	-	300	27
OHIO	-	-	1,014	64	1,014	64
OKLAHOMA	272	47	162	6	434	53
SOUTH DAKOTA	3,864	241	-	-	3,864	241
TENNESSEE	4,280	679	2,393	229	6,673	908
TEXAS	1,820	303	4	(1)	1,824	303
WEST VIRGINIA	14	6	-	-	14	6
WISCONSIN	10,717	645	318	23	11,035	668
TOTAL	67,008	8,812	7,843	1,102	74,851	9,914

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF OPERATING UNITS, 1970

ITEM	ALABAMA	ARKANSAS	IDAHO	ILLINOIS	INDIANA	IOWA
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	133	1,264	5	101	10	113
CASUAL	188	4,830	110	298	116	334
TOTAL	321	6,094	115	399	126	447
BOATS:						
MOTOR	306	6,252	107	330	120	422
OTHER	-	-	6	21	-	37
GEAR:						
HAUL SEINES, COMMON	-	26	7	22	-	39
LENGTH, YARDS	-	3,600	700	5,150	-	13,575
WEIRS	-	-	1	-	-	9
POUND NETS	-	-	-	-	-	2
FYKE AND HOOP NETS, FISH	-	17,134	-	4,914	164	3,282
POTS AND TRAPS:						
FISH	-	-	-	-	-	5,358
WIRE BASKETS	410	-	-	1,802	-	-
GILL NETS, ANCHOR, SET OR STAKE	450	1,444	-	88	-	586
SQUARE YARDS	119,700	288,800	-	8,513	-	37,088
TRAMMEL NETS	82	2,948	-	581	21	403
SQUARE YARDS	21,800	587,600	-	104,089	4,200	75,075
LINES:						
HAND	-	-	101	-	-	-
HOOKS	-	-	101	-	-	-
LONG OR SET WITH HOOKS	2,130	9,698	-	410	68	1,636
HOOKS	213,000	242,450	-	50,500	4,625	163,600
SNAG	744	3,232	-	-	-	-
HOOKS	372,000	646,400	-	-	-	-
ELECTRICAL DEVICES	-	-	-	-	-	2
DIP NETS, COMMON	6	18	-	-	-	-
CROWFOOT BARS	-	-	-	24	150	-

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	KANSAS	KENTUCKY	LOUISIANA	MINNESOTA	MISSISSIPPI	MISSOURI
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	-	121	370	142	156	52
CASUAL	81	550	1,251	425	566	408
TOTAL	81	671	1,621	567	722	460
BOATS:						
MOTOR	12	645	1,606	259	652	428
OTHER	-	-	7	23	7	8
GEAR:						
HAUL SEINES, COMMON	2	-	49	58	16	8
LENGTH, YARDS	144	-	12,900	42,527	5,500	810
WEIRS	-	-	-	66	-	-
FYKE AND HOOP NETS, FISH	64	990	29,290	3,001	3,910	1,154
POTS AND TRAPS:						
CRAWFISH	-	-	61,522	-	-	-
FISH	-	-	-	113	-	-
SHRIMP	-	-	130	-	-	-
TURTLE	-	-	65	-	-	-
GILL NETS, ANCHOR, SET OR STAKE	-	348	1,191	219	741	-
SQUARE YARDS	-	67,900	421,447	334,600	285,150	-
TRAMMEL NETS	10	445	637	-	90	229
SQUARE YARDS	1,510	89,000	125,719	-	33,200	54,451
LINES:						
HAND	20	-	176	-	-	-
HOOKS	157	-	196	-	-	-
LONG OR SET WITH HOOKS	-	1,550	1,587	76	1,583	140
HOOKS	-	139,500	214,350	17,850	391,900	26,835
SNAG	-	-	-	-	517	-
HOOKS	-	-	-	-	643,300	-
DIP NETS, COMMON	-	35	219	-	-	-
TONGS	-	-	181	-	-	-
CROWFOOT BARS	-	80	-	-	-	-

ITEM	MONTANA	NEBRASKA	NORTH DAKOTA	OHIO	OKLAHOMA	SOUTH DAKOTA
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	15	2	9	-	20	19
CASUAL	-	147	-	60	52	40
TOTAL	15	149	9	60	72	59
BOATS:						
MOTOR	10	137	4	42	43	22
OTHER	2	16	-	-	-	5
GEAR:						
HAUL SEINES, COMMON	1	14	-	-	-	11
LENGTH, YARDS	1,000	1,717	-	-	-	8,760
TRAP NETS	-	-	18	-	-	-
FYKE AND HOOP NETS, FISH	25	187	127	-	-	382
POTS AND TRAPS, FISH	-	156	-	-	-	-
GILL NETS, ANCHOR, SET OR STAKE	57	-	-	-	180	92
SQUARE YARDS	15,111	-	-	-	70,700	18,400
TRAMMEL NETS	43	98	-	-	25	-
SQUARE YARDS	11,467	13,067	-	-	6,700	-
LINES, LONG OR SET WITH HOOKS	-	1	-	-	-	-
HOOKS	-	200	-	-	-	-
CROWFOOT BARS	-	-	-	120	-	-

(CONTINUED ON NEXT PAGE)

SUMMARY OF OPERATING UNITS, 1970 - Continued

ITEM	TENNESSEE	TEXAS	WEST VIRGINIA	WISCONSIN	TOTAL
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	290	77	-	138	3,037
CASUAL.	548	245	8	625	10,882
TOTAL	838	322	8	763	13,919
BOATS:					
MOTOR	814	291	8	590	13,100
OTHER	-	-	-	47	179
GEAR:					
HAUL SEINES, COMMON . . .	-	-	-	54	307
LENGTH, YARDS	-	-	-	29,817	126,200
OTTER TRAWLS, FISH. . . .	-	-	-	1	1
YARDS AT MOUTH.	-	-	-	13	13
WEIRS	-	-	-	3	79
POUND NETS.	-	-	-	-	2
TRAP NETS	-	-	-	112	130
FYKE AND HOOP NETS:					
FISH.	1,960	306	90	1,158	68,138
TURTLE.	175	-	-	-	175
POTS AND TRAPS:					
CRAWFISH.	-	-	-	-	61,522
FISH.	-	-	-	-	5,627
SHRIMP.	-	-	-	-	130
TURTLE.	-	-	-	-	65
WIRE BASKETS.	-	-	-	-	2,212
SLAT TRAPS.	-	-	-	1,131	1,131
GILL NETS, ANCHOR, SET, OR STAKE	129	924	-	90	6,539
SQUARE YARDS.	29,820	208,900	-	88,033	1,994,162
TRAMMEL NETS.	1,057	114	-	5	6,788
SQUARE YARDS.	266,550	24,800	-	667	1,419,895
LINES:					
HAND.	-	-	-	-	297
HOOKS	-	-	-	-	454
LONG OR SET WITH HOOKS.	3,836	560	-	379	23,654
HOOKS	307,950	42,500	-	116,977	1,932,237
SNAG.	721	-	-	-	5,214
HOOKS	339,800	-	-	-	2,001,500
ELECTRICAL DEVICES. . . .	-	-	-	2	2
DIP NETS, COMMON.	19	-	-	-	297
TONGS	-	-	-	-	181
CROWFOOT BARS	84	-	-	20	478
DIVING OUTFITS.	55	-	-	16	71

MISSISSIPPI RIVER FISHERIES

LANDINGS BY STATES, 1970

SPECIES	ALABAMA		ARKANSAS		IDAHO	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	-	-	27	1	-	-
BUFFALOFISH	1,065	107	5,346	898	-	-
CARP	254	8	644	32	653	19
CATFISH AND BULLHEADS	829	250	3,602	1,261	-	-
CHUBS	-	-	-	-	76	2
GARFISH	1	(1)	178	9	-	-
GIZZARD SHAD	95	4	-	-	-	-
PADDLEFISH	109	6	122	[illegible]	-	-
QUILLBACK	14	1	125	[illegible]	-	-
SALMON, RED OR SOCKEYE	-	-	-	-	60	34
SHEEPSHEAD	95	3	744	[illegible]	-	-
SUCKERS	20	1	117	[illegible]	614	26
TOTAL FISH	2,482	380	10,905	2,318	1,403	81
SHELLFISH ET AL.						
MUSSEL SHELLS	14	2	-	-	-	-
TURTLES:						
BABY	-	-	3	[illegible]	-	-
SLIDER	-	-	40	[illegible]	-	-
SNAPPER	-	-	31	[illegible]	-	-
SOFT-SHELL	-	-	2	(1)	-	-
TOTAL SHELLFISH ET AL.	14	2	76	28	-	-
GRAND TOTAL	2,496	382	10,981	2,346	1,403	81

SPECIES	ILLINOIS		INDIANA		IOWA	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	3	(1)	-	-	(1)	(1)
BUFFALOFISH	1,772	230	73	12	1,033	121
CARP	1,621	86	14	1	1,298	48
CATFISH AND BULLHEADS	634	199	20	7	451	142
EEL, COMMON	(1)	(1)	-	-	(1)	(1)
GARFISH	10	(1)	-	-	13	1
GIZZARD SHAD	-	-	-	-	(1)	(1)
MOONEYE OR GOLDEYE	2	(1)	-	-	-	-
PADDLEFISH	99	12	2	(1)	40	4
QUILLBACK	79	6	5	(1)	-	-
SHEEPSHEAD	450	37	4	(1)	508	40
STURGEON, SHOVELNOSE	21	5	12	3	20	6
SUCKERS	1	(1)	10	1	73	3
UNCLASSIFIED, FOR FOOD	-	-	-	-	9	(1)
TOTAL FISH	4,692	575	140	24	3,445	365
SHELLFISH ET AL.						
MUSSEL SHELLS	125	11	628	70	-	-
TURTLES, SNAPPER	-	-	-	-	(1)	(1)
TOTAL SHELLFISH ET AL.	125	11	628	70	(1)	(1)
GRAND TOTAL	4,817	586	768	94	3,445	365

SPECIES	KANSAS		KENTUCKY		LOUISIANA	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	-	-	-	-	76	4
BUFFALOFISH	3	1	599	84	2,304	313
CARP	23	6	192	10	194	7
CATFISH AND BULLHEADS	6	3	1,067	327	1,317	379
GARFISH	-	-	-	-	312	22
GIZZARD SHAD	-	-	559	17	-	-
PADDLEFISH	-	-	68	10	20	1
QUILLBACK	(1)	(1)	4	(1)	-	-
SHAD	-	-	-	-	1,211	33
SHEEPSHEAD	-	-	55	4	700	81
STURGEON, SHOVELNOSE	-	-	4	1	-	-
SUCKERS	-	-	3	(1)	-	-
TOTAL FISH	32	10	2,551	453	6,134	840

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	KANSAS		KENTUCKY		LOUISIANA	
SHELLFISH ET AL.	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CRAWFISH	-	-	-	-	1,822	543
SHRIMP	-	-	-	-	2	(1)
MUSSEL SHELLS	600	21	565	44	-	-
TURTLES:						
BABY	-	-	-	-	1	16
SNAPPER	-	-	-	-	80	22
FROGS	-	-	-	-	38	23
TOTAL SHELLFISH ET AL.	600	21	565	44	1,943	604
GRAND TOTAL	632	31	3,116	497	8,077	1,444

SPECIES	MINNESOTA		MISSISSIPPI		MISSOURI	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	19	(1)	5	(1)	4	(1)
BUFFALOFISH	1,005	123	1,745	266	244	61
BURBOT	16	(1)	-	-	-	-
CARP	3,304	103	400	22	282	25
CATFISH AND BULLHEADS	2,742	229	877	276	143	54
EEL, COMMON	-	-	-	-	(1)	(1)
GARFISH	4	(1)	46	3	27	3
MOONEYE OR GOLDEYE	5	1	-	-	-	-
PADDLEFISH	-	-	27	2	14	2
PIKE OR PICKEREL	37	7	-	-	-	-
QUILLBACK	3	(1)	26	2	25	3
SALMON, SILVER OR COHO	2	1	-	-	-	-
SHEEPSHEAD	340	16	61	5	55	8
STURGEON, SHOVELNOSE	-	-	-	-	4	1
SUCKERS	104	2	22	2	2	(1)
SUNFISH	1	(1)	-	-	-	-
TULLIBEE	1	(1)	-	-	-	-
WHITE BASS	41	3	-	-	-	-
WHITEFISH, COMMON	34	13	-	-	-	-
YELLOW PERCH	307	65	-	-	-	-
YELLOW PIKE	795	426	-	-	-	-
TOTAL FISH	8,760	989	3,209	578	800	157
SHELLFISH ET AL.						
TURTLES, SNAPPER	1	(1)	-	-	-	-
TOTAL SHELLFISH ET AL.	1	(1)	-	-	-	-
GRAND TOTAL	8,761	989	3,209	578	800	157

SPECIES	MONTANA		NEBRASKA		NORTH DAKOTA	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BUFFALOFISH	336	48	26	3	161	14
CARP	420	10	137	5	13	(1)
CATFISH AND BULLHEADS	13	3	37	3	109	10
GIZZARD SHAD	-	-	7	(1)	-	-
GOLDFISH	-	-	2	(1)	-	-
MOONEYE OR GOLDEYE	88	17	-	-	-	-
PADDLEFISH	-	-	-	-	(1)	(1)
QUILLBACK	53	1	23	1	-	-
SHEEPSHEAD	19	2	-	-	-	-
SUCKERS	27	1	-	-	-	-
YELLOW PERCH	-	-	-	-	17	3
TOTAL FISH	956	82	232	12	300	27
GRAND TOTAL	956	82	232	12	300	27

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

LANDINGS BY STATES, 1970 - Continued

SPECIES	OHIO		OKLAHOMA		SOUTH DAKOTA	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BUFFALOFISH	-	-	157	17	1,285	129
CARP.	-	-	9	(1)	2,113	57
CATFISH AND BULLHEADS . . .	-	-	95	29	233	28
EEL, COMMON	-	-	-	-	(1)	(1)
MOONEYE OR GOLDEYE.	-	-	-	-	61	21
PADDLEFISH.	-	-	6	1	-	-
QUILLBACK	-	-	1	(1)	-	-
SHEEPSHEAD.	-	-	2	(1)	77	2
SUCKERS	-	-	-	-	95	4
WHITE BASS.	-	-	2	(1)	-	-
TOTAL FISH.	-	-	272	47	3,864	241
SHELLFISH ET AL.						
MUSSEL SHELLS	1,014	64	162	6	-	-
TOTAL SHELLFISH ET AL.	1,014	64	162	6	-	-
GRAND TOTAL	1,014	64	434	53	3,864	241

SPECIES	TENNESSEE		TEXAS		WEST VIRGINIA	
FISH	THOUSAND POUNDS	THOUASND DOLLARS	THOUSAND POUNDS	THOUASND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN.	25	1	1	(1)	-	-
BUFFALOFISH	1,730	201	1,298	177	(1)	(1)
CARP.	697	31	109	5	2	(1)
CATFISH AND BULLHEADS . . .	1,312	405	274	110	12	6
CRAPPIE	35	11	-	-	-	-
GARFISH	-	-	81	6	-	-
PADDLEFISH.	98	10	-	-	-	-
QUILLBACK	67	4	3	(1)	-	-
SHEEPSHEAD.	292	14	41	4	-	-
STURGEON, SHOVELNOSE. . . .	1	(1)	-	-	-	-
SUCKERS	13	1	13	1	-	-
YELLOW BASS	10	1	-	-	-	-
TOTAL FISH.	4,280	679	1,820	303	14	6
SHELLFISH ET AL.						
MUSSEL SHELLS	2,347	226	-	-	-	-
TURTLES:						
BABY.	(1)	1	-	-	-	-
SLIDER.	36	1	-	-	-	-
SNAPPER	10	1	4	(1)	-	-
TOTAL SHELLFISH ET AL.	2,393	229	4	(1)	-	-
GRAND TOTAL	6,673	908	1,824	303	14	6

SPECIES	WISCONSIN		TOTAL	
FISH	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN.	10	(1)	170	6
BUFFALOFISH	1,079	164	21,261	2,969
BURBOT.	47	7	63	7
CARP.	6,097	188	18,476	663
CATFISH AND BULLHEADS . . .	663	170	14,436	3,891
CHUBS	-	-	76	2
CRAPPIE	-	-	35	11
EEL, COMMON	(1)	(1)	(1)	(1)
GARFISH	8	(1)	680	44
GIZZARD SHAD.	1	(1)	662	21
GOLDFISH.	-	-	2	(1)
MOONEYE OR GOLDEYE.	1	(1)	157	39
PADDLEFISH.	-	-	605	68
PIKE OR PICKEREL.	-	-	37	7
QUILLBACK	23	(1)	451	26

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

LANDINGS BY STATES, 1970 - Continued

SPECIES	WISCONSIN		TOTAL	
FISH - CONTINUED	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
SALMON:				
RED OR SOCKEYE.	-	-	60	34
SILVER OR COHO.	-	-	2	1
SHAD.	-	-	1,211	33
SHEEPSHEAD.	2,202	100	5,645	399
STURGEON, SHOVELNOSE. . . .	2	1	64	17
SUCKERS	584	15	1,698	63
SUNFISH	-	-	1	(1)
TULLIBEE.	-	-	1	(1)
WHITE BASS.	-	-	43	4
WHITEFISH, COMMON	-	-	34	12
YELLOW BASS	-	-	10	1
YELLOW PERCH.	-	-	324	68
YELLOW PIKE	-	-	795	426
UNCLASSIFIED, FOR FOOD. . .	(1)	(1)	9	(1)
TOTAL FISH.	10,717	645	67,008	8,812
SHELLFISH ET AL.				
CRAWFISH.	-	-	1,822	543
SHRIMP.	-	-	2	(1)
MUSSEL SHELLS	309	21	5,764	465
TURTLES:				
BABY.	-	-	4	40
SLIDER.	-	-	76	4
SNAPPER	9	2	135	27
SOFT-SHELL.	-	-	2	(1)
FROGS	-	-	38	23
TOTAL SHELLFISH ET AL.	318	23	7,843	1,102
GRAND TOTAL	11,035	668	74,851	9,914

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF LANDINGS BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA					
	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER DRAINAGE AREA		RED RIVER DRAINAGE AREA	
					OUACHITA RIVER DRAINAGE AREA	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	20	1	46	2	(1)	(1)
BUFFALOFISH	3,316	466	952	129	119	16
CARP	6,234	230	83	3	10	(1)
CATFISH AND BULLHEADS	1,732	525	677	195	39	12
EEL, COMMON	(1)	(1)	-	-	-	-
GARFISH	65	4	139	10	35	3
MOONEYE	3	(1)	-	-	-	-
PADDLEFISH	143	17	4	(1)	(1)	(1)
QUILLBACK	82	5	-	-	-	-
SHAD	100	3	910	25	-	-
SHEEPSHEAD	1,985	144	459	53	36	4
STURGEON, SHOVELNOSE	45	12	-	-	-	-
SUCKERS	115	4	-	-	-	-
UNCLASSIFIED, FOR FOOD	7	(1)	-	-	-	-
CRAWFISH	15	4	1,767	527	-	-
SHRIMP	1	(1)	-	-	-	-
MUSSEL SHELLS	309	21	-	-	-	-
TURTLES:						
BABY	-	-	-	-	(1)	2
SNAPPER	13	3	20	5	4	1
FROGS	-	-	31	19	2	1
TOTAL	14,185	1,439	5,088	968	245	39

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	RED RIVER DRAINAGE AREA - CONTINUED		ARKANSAS RIVER DRAINAGE AREA		MISSOURI RIVER DRAINAGE AREA	
	UNCLASSIFIED					
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	36	2	9	(1)	(1)	(1)
BUFFALOFISH	2,440	393	2,985	462	1,978	227
CARP	107	5	551	28	2,613	81
CATFISH AND BULLHEADS	1,295	441	2,422	843	319	55
EEL, COMMON	-	-	-	-	(1)	(1)
GARFISH	149	9	127	6	2	(1)
GIZZARD SHAD	-	-	-	-	7	(1)
GOLDFISH	-	-	-	-	2	(1)
MOONEYE	-	-	-	-	148	39
PADDLEFISH	23	2	76	13	6	1
QUILLBACK	11	1	107	6	87	3
SHAD	200	5	-	-	-	-
SHEEPSHEAD	363	38	375	33	53	3
STURGEON, SHOVELNOSE	-	-	-	-	(1)	(1)
SUCKERS	75	4	51	3	125	5
WHITE BASS	-	-	2	(1)	-	-
UNCLASSIFIED, FOR FOOD	-	-	-	-	2	(1)
CRAWFISH	40	12	-	-	-	-
MUSSEL SHELLS	-	-	762	27	-	-
TURTLES:						
BABY	1	12	-	-	-	-
SLIDER	-	-	18	2	-	-
SNAPPER	46	12	15	1	-	-
SOFT-SHELL	-	-	2	(1)	-	-
FROGS	3	2	-	-	-	-
TOTAL	4,789	938	7,502	1,424	5,342	414

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	OHIO RIVER DRAINAGE AREA					
	OHIO RIVER PROPER		TENNESSEE RIVER DRAINAGE AREA		CUMBERLAND RIVER DRAINAGE AREA	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	(1)	(1)	-	-	-	-
BUFFALOFISH	261	37	2,400	258	228	33
CARP	107	7	711	26	74	5
CATFISH AND BULLHEADS	211	68	2,645	808	151	48
EEL, COMMON	(1)	(1)	-	-	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

SUMMARY OF LANDINGS BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1970 - Continued

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	OHIO RIVER DRAINAGE AREA - CONTINUED					
	OHIO RIVER PROPER		TENNESSEE RIVER DRAINAGE AREA		CUMBERLAND RIVER DRAINAGE AREA	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
GARFISH	-	-	1	(1)	-	-
GIZZARD SHAD	-	-	169	6	485	15
PADDLEFISH	32	5	196	15	27	4
QUILLBACK	2	(1)	71	4	3	(1)
SHEEPSHEAD	40	3	185	8	22	2
STURGEON, SHOVELNOSE	3	1	-	-	-	-
SUCKERS	2	(1)	32	2	2	(1)
MUSSEL SHELLS	473	35	2,379	231	30	3
TURTLES, SNAPPER	-	-	4	(1)	-	-
TOTAL	1,131	156	8,793	1,358	1,022	110

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED					
	OHIO RIVER DRAINAGE AREA - CONTINUED				ILLINOIS RIVER DRAINAGE AREA	
	WABASH RIVER DRAINAGE AREA		UNCLASSIFIED			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	(1)	(1)	-	-	1	(1)
BUFFALOFISH	68	10	155	23	531	66
CARP	21	2	50	3	414	21
CATFISH AND BULLHEADS	28	9	53	20	94	25
GARFISH	-	-	-	-	1	(1)
PADDLEFISH	3	(1)	6	1	6	1
QUILLBACK	20	2	1	(1)	1	(1)
SHEEPSHEAD	6	1	9	1	26	2
STURGEON, SHOVELNOSE	14	3	(1)	(1)	(1)	(1)
SUCKERS	10	1	(1)	(1)	-	-
MUSSEL SHELLS	669	76	1,088	69	54	4
TURTLES, SNAPPER	-	-	-	-	(1)	(1)
TOTAL	839	104	1,362	117	1,128	119

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED				NORTHERN DRAINAGE AREA	
	ST. CROIX RIVER DRAINAGE AREA		UNCLASSIFIED		RED RIVER OF THE NORTH DRAINAGE AREA	
					RED LAKE	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	-	-	50	2	-	-
BUFFALOFISH	3	1	4,591	694	-	-
BURBOT	-	-	10	(1)	-	-
CARP	200	8	5,069	178	-	-
CATFISH AND BULLHEADS	5	(1)	3,473	732	1	1
CRAPPIE	-	-	35	11	-	-
GARFISH	(1)	(1)	99	7	-	-
GIZZARD SHAD	-	-	1	(1)	-	-
MOONEYE	-	-	-	-	5	1
PADDLEFISH	-	-	83	10	-	-
PIKE OR PICKEREL	-	-	-	-	37	7
QUILLBACK	-	-	65	4	-	-
SHAD	-	-	1	(1)	-	-
SHEEPSHEAD	9	(1)	607	54	164	7
STURGEON, SHOVELNOSE	-	-	1	(1)	-	-
SUCKERS	1	(1)	81	3	-	-
SUNFISH	-	-	1	(1)	-	-
TULLIBEE	-	-	1	(1)	-	-
WHITE BASS	-	-	41	4	-	-
WHITEFISH, COMMON	-	-	-	-	34	12
YELLOW BASS	-	-	10	1	-	-
YELLOW PERCH	(1)	(1)	67	2	216	63
YELLOW PIKE	-	-	-	-	795	425
SHRIMP	-	-	1	(1)	-	-
TURTLES:						
BABY	-	-	3	24	-	-
SLIDER	-	-	57	3	-	-
SNAPPER	-	-	28	5	-	-
FROGS	-	-	2	1	-	-
TOTAL	218	9	14,377	1,735	1,252	516

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

SUMMARY OF LANDINGS BY MAJOR WATERS OF CERTAIN INLAND DRAINAGE AREAS, 1970 - Continued

SPECIES	NORTHERN DRAINAGE AREA - CONTINUED			
	RED RIVER OF THE NORTH DRAINAGE AREA - CONTINUED		UNCLASSIFIED	
	UNCLASSIFIED			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	7	(1)	1	(1)
BUFFALOFISH	34	4	161	15
BURBOT	1	(1)	52	7
CARP	562	15	931	30
CATFISH AND BULLHEADS	983	82	307	26
GARFISH	-	-	(1)	(1)
MOONEYE	-	-	1	(1)
PADDLEFISH	-	-	1	(1)
SALMON, SILVER OR COHO	-	-	2	1
SHEEPSHEAD	68	2	1,226	41
SUCKERS	5	(1)	586	15
YELLOW PERCH	38	3	2	(1)
TURTLES, SNAPPER	-	-	(1)	(1)
TOTAL	1,698	106	3,270	135

SPECIES	GULF OF MEXICO DRAINAGE AREA		PACIFIC OCEAN DRAINAGE AREA	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BOWFIN	(1)	(1)	-	-
BUFFALOFISH	1,039	136	-	-
CARP	86	4	653	19
CHUBS	-	-	76	2
GARFISH	62	5	-	-
QUILLBACK	3	(1)	-	-
SALMON, RED OR SOCKEYE	-	-	60	34
SHEEPSHEAD	12	1	-	-
SUCKERS	1	(1)	614	26
TURTLES, SNAPPER	4	(1)	-	-
TOTAL	1,207	146	1,403	81

1/ LESS THAN 500 POUNDS OR $500.

MISSISSIPPI RIVER FISHERIES

PROCESSED FISHERY PRODUCTS, 1970

ITEM	STATE	UNIT	QUANTITY	DOLLARS
BUFFALOFISH:				
FILLETS, FRESH AND FROZEN	ILLINOIS, IOWA, MISSOURI	POUNDS	124,468	49,819
SMOKED	IOWA	DO	(1)	(1)
CARP:				
FILLETS, FRESH AND FROZEN	ILLINOIS, IOWA, MISSOURI, WISCONSIN	DO	2,090,570	690,578
SMOKED (INCLUDING SAUSAGE)	ILLINOIS, IOWA, NORTH DAKOTA, SOUTH DAKOTA, WISCONSIN	DO	264,150	103,459
MEAL AND SCRAP	IOWA	TONS	(1)	(1)
OIL	IOWA	1,000 LBS	(1)	(1)
CATFISH:				
FROZEN:				
DRESSED, SKINS OFF	ALABAMA, ARKANSAS, ILLINOIS, IOWA, MISSISSIPPI, MISSOURI, TENNESSEE, WISCONSIN	POUNDS	2,882,257	2,502,361
STEAKS	IOWA	DO	(1)	(1)
FILLETS, BREADED RAW	ILLINOIS	DO	(1)	(1)
SMOKED	ILLINOIS, IOWA	DO	14,070	13,489
CHUBS, SMOKED	IOWA, MISSOURI	DO	(1)	(1)
COD:				
BREADED, RAW AND COOKED:				
FILLETS	MISSOURI	DO	(1)	(1)
STEAKS	TENNESSEE	DO	(1)	(1)
SPECIALTIES (CAKES)	KENTUCKY	DO	(1)	(1)
LUTEFISK	MINNESOTA	DO	(1)	(1)
EELS, SMOKED	IOWA	DO	(1)	(1)
FLOUNDER:				
FROZEN:				
BREADED, RAW AND COOKED:				
FILLETS	MISSOURI, TENNESSEE, WISCONSIN	DO	186,411	120,651
SPECIALTIES (STUFFED)	TENNESSEE, TEXAS	DO	(1)	(1)
SMOKED	IOWA	DO	(1)	(1)
HALIBUT, SMOKED	NORTH DAKOTA	DO	(1)	(1)
HERRING:				
LAKE, SMOKED	SOUTH DAKOTA	DO	(1)	(1)
SEA:				
FILLETS, BREADED RAW, FROZEN	KENTUCKY	DO	(1)	(1)
SPECIALTIES, CURED AND REFRIGERATED (IN WINE AND CREAM SAUCES)	MINNESOTA, MISSOURI	DO	(1)	(1)
SALTED	MINNESOTA	DO	(1)	(1)
MOONEYE, SMOKED	MINNESOTA	DO	(1)	(1)
OCEAN PERCH FILLETS, BREADED, RAW AND COOKED, FROZEN	MINNESOTA, WISCONSIN	DO	(1)	(1)
PADDLEFISH:				
DRESSED, SKINS OFF, FRESH	ILLINOIS	DO	(1)	(1)
SMOKED	ILLINOIS, IOWA	DO	9,900	7,650
PIKE OR PICKEREL, FILLETS, FRESH AND FROZEN	MINNESOTA	DO	(1)	(1)
SALMON, SMOKED	IOWA, NORTH DAKOTA, SOUTH DAKOTA, MISSOURI	DO	20,600	45,841
SHEEPSHEAD:				
DRESSED, SKINS OFF, FRESH	ILLINOIS	DO	(1)	(1)
SMOKED	ILLINOIS, IOWA	DO	(1)	(1)
STURGEON, SMOKED	ILLINOIS, IOWA	DO	18,400	18,310
WHITEFISH, SMOKED	MINNESOTA, NORTH DAKOTA, SOUTH DAKOTA	DO	5,400	5,087
WHITING:				
FROZEN:				
DRESSED, SKINS OFF	ILLINOIS, MISSOURI	DO	(1)	(1)
BREADED, RAW AND COOKED	ILLINOIS, MISSOURI	DO	(1)	(1)
SMOKED	IOWA	DO	(1)	(1)
YELLOW PERCH FILLETS:				
FRESH	MINNESOTA	DO	(1)	(1)
BREADED RAW, FROZEN	WISCONSIN	DO	(1)	(1)
YELLOW PIKE FILLETS:				
FRESH AND FROZEN	MINNESOTA	DO	(1)	(1)
BREADED RAW, FROZEN	WISCONSIN	DO	(1)	(1)
CRAB SPECIALTIES, FROZEN, (DEVILED BREADED RAW)	KENTUCKY	DO	(1)	(1)
CRAWFISH, MEAT, COOKED, FRESH	LOUISIANA	DO	236,957	564,810
SHRIMP, FROZEN:				
COOKED AND PEELED	TENNESSEE	DO	(1)	(1)
BREADED RAW	KENTUCKY, OKLAHOMA, MISSOURI, TENNESSEE, TEXAS, WISCONSIN	DO	5,336,295	5,751,293
SPECIALTIES, BREADED, RAW AND COOKED, (STEAKS, STUFFED, PORTIONS, ETC.)	MINNESOTA, MISSOURI, TENNESSEE, TEXAS	DO	282,033	224,284

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

MISSISSIPPI RIVER FISHERIES

PROCESSED FISHERY PRODUCTS, 1970 - Continued

ITEM	STATE	UNIT	QUANTITY	DOLLARS
CLAMS, HARD, BREADED RAW, FROZEN. .	KENTUCKY	DO	(1)	(1)
MUSSEL SHELL, LIME AND CHIPS. . . .	IOWA	TONS	(1)	(1)
OYSTERS, EASTERN:				
SHUCKED, FRESH.	LOUISIANA	GALLONS	(1)	(1
BREADED RAW, FROZEN	KENTUCKY, TENNESSEE	POUNDS	(1)	(1)
SCALLOPS, SEA, BREADED RAW, FROZEN.	KENTUCKY, MISSOURI, TENNESSEE, WISCONSIN	DO	293,068	380,699
TURTLE MEAT, RAW, FRESH AND FROZEN.	WISCONSIN	DO	(1)	(1)
FROGLEGS, FRESH AND FROZEN.	WISCONSIN	DO	(1)	(1)
UNCLASSIFIED:				
FRESH AND FROZEN PACKAGED:				
STICKS.	MISSOURI, TENNESSEE, WISCONSIN	DO	4,070,962	1,434,318
PORTIONS.	KENTUCKY, MISSOURI, TEXAS, WISCONSIN	DO	20,926,488	7,538,752
FISH AND SHELLFISH.	ILLINOIS, IOWA, KENTUCKY, LOUISIANA, MINNESOTA, MISSOURI, TENNESSEE, TEXAS, WISCONSIN	DO	4,847,707	2,735,038
CANNED (PET FOOD)	KANSAS, NEBRASKA, WISCONSIN	STANDARD CASES	374,005	2,962,303
CURED	ILLINOIS, IOWA, MINNESOTA, MISSOURI, NORTH DAKOTA, SOUTH DAKOTA	POUNDS	3,091,250	1,930,006
INDUSTRIAL.	IOWA	-	-	(1)
TOTAL.		-	-	27,078,748

1/ INCLUDED WITH UNCLASSIFIED FISH AND SHELLFISH. NOTE:--SOME OF THE PRODUCTS MAY HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH.	1,787
FROZEN	20,109
CANNED AND INDUSTRIAL.	3,059
CURED.	2,124
TOTAL.	27,079

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

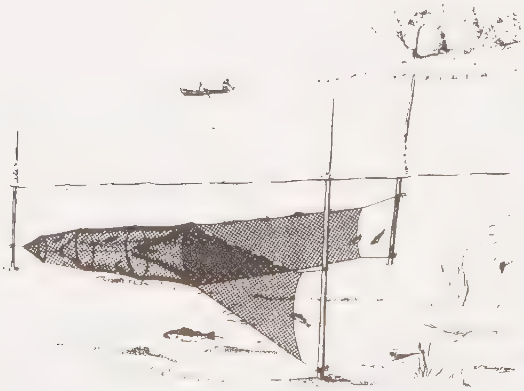
STATE	THOUSAND DOLLARS
ALABAMA.	522
ARKANSAS	1,053
ILLINOIS	[illegible]
IOWA	565
KANSAS, KENTUCKY, AND NEBRASKA	[illegible]
LOUISIANA.	593
MINNESOTA.	[illegible]
MISSISSIPPI, OKLAHOMA, AND TEXAS	5,323
MISSOURI	[illegible]
NORTH DAKOTA AND SOUTH DAKOTA.	[illegible]
TENNESSEE.	[illegible]
WISCONSIN.	4,747
TOTAL	[illegible]

MISSISSIPPI RIVER FISHERIES

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
ALABAMA.	5	86	42	12	58	53	17	144	95
ARKANSAS	5	83	41	22	45	45	27	128	86
ILLINOIS	18	53	51	21	66	62	39	119	113
INDIANA.	-	-	-	12	88	81	12	88	81
IOWA	8	74	59	11	40	35	19	114	94
KANSAS, KENTUCKY, AND NEBRASKA.	4	183	155	25	118	117	29	301	272
LOUISIANA.	18	221	99	24	86	82	42	307	181
MINNESOTA.	5	111	71	12	30	26	17	141	97
MISSISSIPPI, OKLAHOMA, AND TEXAS	3	430	373	48	180	179	51	610	552
MISSOURI	6	400	332	29	84	80	35	484	412
NORTH DAKOTA AND SOUTH DAKOTA.	3	18	10	7	20	14	10	38	24
OHIO	-	-	-	6	6	6	6	6	6
TENNESSEE.	3	34	20	33	109	105	36	143	125
WISCONSIN.	9	287	269	16	28	27	25	315	296
TOTAL	87	1,980	1,522	278	958	912	365	2,938	2,434

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.



Fyke net

MISSISSIPPI RIVER FISHERIES

ALABAMA

OPERATING UNITS BY GEAR, 1970

ITEM	POTS AND TRAPS, WIRE BASKETS	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES		DIP NETS, COMMON	BY HAND	TOTAL EXCLUSIVE OF DUPLICATION
				LONG OR SET WITH HOOKS	SNAG			
	NUMBER							
FISHERMEN, ON BOATS AND SHORE:								
REGULAR	20	53	20	108	68	2	-	133
CASUAL.	25	45	14	149	82	4	25	188
TOTAL	45	98	34	257	150	[illegible]	25	321
BOATS, MOTOR.	45	98	34	257	150	[illegible]	-	306
GEAR:								
NUMBER.	410	450	62	2,130	744		-	-
SQUARE YARDS.	-	119,[illegible]00	21,600	-	-	-	-	-
HOOKS	-	-	-	213,000	372,000	-	-	-

ALABAMA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	POTS AND TRAPS, WIRE BASKETS		GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	875,800	88,105	175,000	17,605
CARP.	-	-	173,700	5,385	67,500	2,092
CATFISH AND BULLHEADS . . .	60,000	18,155	86,500	26,174	14,000	4,236
GARFISH	-	-	1,000	30	-	-
PADDLEFISH.	-	-	39,000	2,211	15,500	879
QUILLBACK	-	-	11,700	415	2,500	89
SHEEPSHEAD.	-	-	67,000	2,010	13,800	414
SUCKERS	-	-	15,000	549	4,800	176
TOTAL	60,000	18,155	1,269,700	124,879	293,100	25,491

SPECIES	LINES			
	LONG OR SET WITH HOOKS		SNAG	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	8,700	875	5,700	573
CARP.	6,300	195	6,500	202
CATFISH AND BULLHEADS . . .	570,700	172,688	97,500	29,502
PADDLEFISH.	600	34	53,400	3,028
SHEEPSHEAD.	10,500	315	3,900	117
TOTAL	596,800	174,107	167,000	33,422

SPECIES	DIP NETS, COMMON		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
GIZZARD SHAD.	95,000	3,800	-	-
MUSSEL SHELLS	-	-	14,000	2,100
TOTAL	95,000	3,800	14,000	2,100

NOTE:--THE COMMERCIAL FISHERIES OF ALABAMA WERE CONFINED TO THE TENNESSEE RIVER DRAINAGE AREA.

MISSISSIPPI RIVER FISHERIES

ARKANSAS

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	10	934	196	414
CASUAL	8	2,774	456	818
TOTAL	18	3,708	652	1,232
BOATS, MOTOR	12	3,766	652	1,232
GEAR:				
NUMBER	26	17,134	1,444	2,948
LENGTH, YARDS	3,600	-	-	-
SQUARE YARDS	-	-	288,800	587,600

ITEM	LINES		DIP NETS, COMMON	TOTAL, EXCLUSIVE OF DUPLICATION
	LONG OR SET WITH HOOKS	SNAG		
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	22	174	6	1,264
CASUAL	1,080	360	12	4,830
TOTAL	1,102	534	18	6,094
BOATS, MOTOR	1,102	26	18	6,252
GEAR:				
NUMBER	9,698	3,232	18	-
HOOKS	242,450	[illegible]	-	-

ARKANSAS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	900	45	13,400	670	4,300	215	6,900	345
BUFFALOFISH	55,400	9,153	3,409,800	563,013	499,300	87,585	1,205,300	208,521
CARP	3,000	150	424,100	21,205	34,500	1,725	86,200	4,310
CATFISH AND BULLHEADS	15,800	5,530	1,162,000	406,700	568,400	198,940	1,141,400	399,490
GARFISH	1,200	60	78,000	3,900	16,700	835	37,800	1,890
PADDLEFISH	700	105	57,500	9,126	21,800	3,717	39,500	6,546
QUILLBACK	1,300	70	87,300	5,420	8,100	505	25,000	1,445
SHEEPSHEAD	7,800	693	524,400	56,893	53,100	6,552	141,100	16,726
SUCKERS	1,400	70	77,300	3,865	10,000	500	26,900	1,345
TURTLES:								
SLIDER	-	-	30,000	2,400	5,000	400	5,000	400
SNAPPER	300	24	22,000	1,760	2,500	200	5,700	456
SOFT-SHELL	-	-	-	-	-	-	2,000	160
TOTAL	87,800	15,900	[illegible]	[illegible]	1,223,700	301,174	2,722,800	641,634

(CONTINUED ON NEXT PAGE)

ARKANSAS - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	LINES				DIP NETS, COMMON	
	LONG OR SET WITH HOOKS		SNAG			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	1,200	60	100	5	-	-
BUFFALOFISH	32,100	5,643	144,200	24,459	-	-
CARP	78,400	3,920	17,800	890	-	-
CATFISH AND BULLHEADS	673,200	235,620	41,400	14,490	-	-
GARFISH	40,300	2,015	4,100	205	-	-
PADDLEFISH	-	-	2,000	327	-	-
QUILLBACK	-	-	3,000	200	-	-
SHEEPSHEAD	-	-	17,900	2,062	-	-
SUCKERS	-	-	1,900	95	-	-
TURTLES, BABY	-	-	-	-	3,000	22,500
TOTAL	825,200	247,258	232,400	42,733	3,000	22,500

ARKANSAS - LANDINGS BY WATERS, 1970

SPECIES	RED RIVER DRAINAGE AREA, UNCLASSIFIED		ARKANSAS RIVER DRAINAGE AREA		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	12,000	600	8,700	435	6,100	305
BUFFALOFISH	1,257,100	226,278	2,827,900	445,098	1,261,100	226,998
CARP	33,100	1,655	542,000	27,100	68,900	3,445
CATFISH AND BULLHEADS	600,700	210,245	2,326,300	814,205	675,200	236,320
GARFISH	30,800	1,540	126,900	6,345	20,400	1,020
PADDLEFISH	10,500	1,575	70,500	12,171	40,500	6,075
QUILLBACK	10,500	525	106,100	6,305	8,100	810
SHEEPSHEAD	209,100	20,910	373,000	32,820	162,200	29,196
SUCKERS	62,800	3,140	50,700	2,535	4,000	200
TURTLES:						
BABY	-	-	-	-	3,000	22,500
SLIDER	-	-	18,000	1,440	22,000	1,760
SNAPPER	5,500	440	15,300	1,224	9,700	776
SOFT-SHELL	-	-	2,000	160	-	-
TOTAL	2,232,100	466,908	6,467,400	1,349,838	2,281,200	529,405

IDAHO

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	WEIRS	LINES, HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	5	2	-	5
CASUAL	9	3	101	110
TOTAL	14	5	101	115
BOATS:				
MOTOR	6	-	101	107
OTHER	6	-	-	6
GEAR:				
NUMBER	7	1	101	-
LENGTH, YARDS	700	-	-	-
HOOKS	-	-	101	-

IDAHO - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		WEIRS		LINES, HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CARP.	652,400	19,543	-	-	-	-
CHUBS	75,900	1,520	-	-	-	-
SALMON, RED OR SOCKEYE. . .	-	-	-	-	60,000	34,200
SUCKERS	454,200	18,101	160,100	7,464	-	-
TOTAL	1,182,500	39,164	160,100	7,464	60,000	34,200

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE PACIFIC OCEAN DRAINAGE AREA.

ILLINOIS

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, WIRE BASKETS	GILL NETS, ANCHOR, SET, OR STAKE
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	23	82	39	11
CASUAL.	16	151	69	10
TOTAL	39	233	108	21
BOATS:				
MOTOR	21	213	100	20
OTHER	18	3	1	-
GEAR:				
NUMBER.	22	4,914	1,802	88
LENGTH, YARDS	5,150	-	-	-
SQUARE YARDS.	-	-	-	8,513

ITEM	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	76	26	-	101
CASUAL.	119	127	12	298
TOTAL	195	153	12	399
BOATS:				
MOTOR	180	114	12	330
OTHER	3	2	-	21
GEAR:				
NUMBER.	581	410	24	-
SQUARE YARDS.	104,089	-	-	-
HOOKS	-	50,500	-	-

ILLINOIS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		POTS AND TRAPS, WIRE BASKETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	800	30	500	22	-	-
BUFFALOFISH	139,200	18,286	640,100	83,773	-	-
CARP.	133,500	6,636	658,900	36,017	14,600	718
CATFISH AND BULLHEADS . . .	8,100	2,594	333,400	103,205	163,700	51,600
EEL, COMMON	-	-	100	20	-	-
GARFISH	4,900	199	2,000	80	-	-
MOONEYE	-	-	2,000	101	-	-
PADDLEFISH.	44,400	5,339	7,200	862	-	-
QUILLBACK	2,200	126	43,500	3,593	-	-
SHEEPSHEAD.	66,000	5,351	297,500	24,255	300	26
STURGEON, SHOVELNOSE. . . .	-	-	11,100	2,661	-	-
SUCKERS	-	-	300	19	-	-
TOTAL	399,100	38,561	1,996,600	[illegible]	[illegible]	[illegible]

SPECIES	GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	-	-	1,100	48
BUFFALOFISH	5,100	678	986,200	127,521
CARP.	6,500	320	798,700	41,515
CATFISH AND BULLHEADS . . .	1,700	533	26,800	8,215
GARFISH	-	-	2,800	110
PADDLEFISH.	6,900	834	40,600	4,952
QUILLBACK	-	-	33,600	1,992
SHEEPSHEAD.	-	-	77,800	6,332
STURGEON, SHOVELNOSE. . . .	-	-	8,100	1,959
SUCKERS	-	-	200	11
TOTAL	20,200	2,365	1,975,900	192,655

SPECIES	LINES, LONG OR SET WITH HOOKS		CROWFOOT BARS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	300	15	-	-
BUFFALOFISH	1,600	222	-	-
CARP.	8,800	454	-	-
CATFISH AND BULLHEADS . . .	100,600	33,046	-	-
EEL, COMMON	300	60	-	-
SHEEPSHEAD.	8,800	739	-	-
STURGEON, SHOVELNOSE. . . .	1,400	303	-	-
MUSSEL SHELLS	-	-	125,200	10,817
TOTAL	121,800	34,839	125,200	10,817

ILLINOIS - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER DRAINAGE AREA			
			OHIO RIVER PROPER		WABASH RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	800	38	300	15	300	11
BUFFALOFISH	1,096,200	147,032	94,000	14,100	13,800	1,513
CARP.	1,078,200	52,893	38,400	3,072	13,700	1,372
CATFISH AND BULLHEADS . . .	431,100	138,357	75,800	25,772	16,200	4,537
EEL, COMMON	100	20	300	60	-	-
GARFISH	9,000	355	-	-	-	-
MOONEYE	2,000	101	-	-	-	-
PADDLEFISH.	89,000	10,696	3,900	[illegible]	100	16
QUILLBACK	43,200	2,504	-	-	14,300	1,860
SHEEPSHEAD.	409,800	33,300	9,300	[illegible]	4,500	499
STURGEON, SHOVELNOSE. . . .	18,100	[illegible]	400	[illegible]	2,000	465
SUCKERS	400	22	-	-	100	8
MUSSEL SHELLS	-	-	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	3,177,900	389,705	252,400	45,101	106,000	[illegible]

(CONTINUED ON NEXT PAGE)

ILLINOIS - LANDINGS BY WATERS, 1970 - Continued

SPECIES	ILLINOIS RIVER DRAINAGE AREA		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	1,300	51	-	-
BUFFALOFISH	435,200	50,294	133,000	17,541
CARP	354,500	19,532	136,200	8,791
CATFISH AND BULLHEADS	93,900	25,510	17,300	5,017
GARFISH	700	34	-	-
PADDLEFISH	6,100	690	-	-
QUILLBACK	600	39	21,200	1,308
SHEEPSHEAD	26,000	1,975	800	92
STURGEON, SHOVELNOSE	100	11	-	-
MUSSEL SHELLS	54,200	4,068	-	-
TOTAL	972,600	102,204	308,500	32,749

INDIANA

OPERATING UNITS BY GEAR, 1970

ITEM	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	4	-	2	6	10
CASUAL	31	7	37	69	116
TOTAL	35	7	39	75	126
BOATS, MOTOR	33	7	39	75	120
GEAR:					
NUMBER	164	21	68	150	-
SQUARE YARDS	-	4,200	-	-	-
HOOKS	-	-	4,625	-	-

INDIANA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	FYKE AND HOOP NETS, FISH		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	58,200	8,931	11,400	2,052
CARP	9,900	783	3,800	380
CATFISH AND BULLHEADS	9,400	3,317	700	266
PADDLEFISH	2,400	360	-	-
QUILLBACK	5,300	265	-	-
SHEEPSHEAD	1,700	170	700	70
STURGEON, SHOVELNOSE	9,300	2,046	-	-
SUCKERS	9,000	1,170	-	-
TOTAL	105,200	17,042	16,600	2,768

SPECIES	LINES, LONG OR SET WITH HOOKS		CROWFOOT BARS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	3,000	450	-	-
CARP	300	21	-	-
CATFISH AND BULLHEADS	9,700	3,572	-	-
SHEEPSHEAD	1,600	160	-	-
STURGEON, SHOVELNOSE	2,200	484	-	-
SUCKERS	1,200	156	-	-
MUSSEL SHELLS	-	-	627,900	69,616
TOTAL	18,000	4,843	627,900	69,616

INDIANA - LANDINGS BY WATERS, 1970

SPECIES	OHIO RIVER PROPER		WABASH RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	18,100	3,258	54,500	5,1[illegible]
CARP.	6,800	680	7,300	504
CATFISH AND BULLHEADS . . .	7,500	2,850	12,300	4,[illegible]
PADDLEFISH.	-	-	2,400	240
QUILLBACK	-	-	5,300	265
SHEEPSHEAD.	2,600	260	1,400	140
STURGEON, SHOVELNOSE. . . .	-	-	11,500	2,530
SUCKERS	-	-	10,300	1,32[illegible]
MUSSEL SHELLS	-	-	127,500	[illegible]
TOTAL	35,000	7,048	232,500	57,221

IOWA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	WEIRS	POUND NETS, FISH	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	33		2	80	112
CASUAL.	94	12	-	246	342
TOTAL	127	12	2	326	454
BOATS:					
MOTOR	46	-	2	326	412
OTHER	3	-	-	-	-
GEAR:					
NUMBER.	39	9	2	3,282	5,358
LENGTH, YARDS	13,575	-	-	-	-

ITEM	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	ELECTRICAL DEVICES	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	64	67	82	2	113
CASUAL.	186	202	245	-	334
TOTAL	250	269	327	2	447
BOATS:					
MOTOR	243	269	327	2	422
OTHER	-	-	-	-	37
GEAR:					
NUMBER.	586	403	1,636	2	-
SQUARE YARDS.	37,086	75,075	-	-	-
HOOKS	-	-	163,600	-	-

IOWA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		WEIRS		POUND NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	130,000	13,225	4,800	144	100	16
CARP.	298,300	10,024	64,800	663	100	3
CATFISH AND BULLHEADS . . .	13,800	4,343	-	-	-	-
GARFISH	1,900	75	-	-	-	-
GIZZARD SHAD.	200	8	-	-	-	-
PADDLEFISH.	12,100	1,334	-	-	-	-
SHEEPSHEAD.	169,500	12,524	200	2	100	4
STURGEON, SHOVELNOSE. . . .	300	76	-	-	-	-
SUCKERS	2,200	85	-	-	-	-
UNCLASSIFIED, FOR FOOD. . .	200	14	-	-	-	-
TOTAL	628,500	41,708	69,800	809	300	23

SPECIES	FYKE AND HOOP NETS, FISH		POTS AND TRAPS, FISH		GILL NETS, ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	-	-	200	8	(1)	3
BUFFALOFISH	150,100	18,013	245,100	29,417	245,800	29,363
CARP.	114,300	4,573	195,700	7,827	302,800	12,154
CATFISH AND BULLHEADS . . .	118,300	37,122	197,300	61,916	19,100	6,080
EEL, COMMON	-	-	(1)	5	-	-
GARFISH	-	-	200	6	5,100	205
PADDLEFISH.	1,000	108	1,600	177	11,500	1,268
SHEEPSHEAD.	97,900	7,833	159,800	12,781	33,600	2,667
STURGEON, SHOVELNOSE. . . .	1,100	319	1,700	520	8,200	2,470
SUCKERS	21,800	871	35,500	1,421	5,400	215
UNCLASSIFIED, FOR FOOD. . .	1,100	56	1,900	92	1,800	89
TURTLES, SNAPPER.	-	-	100	26	100	6
TOTAL	505,600	68,895	839,100	114,196	633,400	54,520

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS		ELECTRICAL DEVICES	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	100	3	100	3	-	-
BUFFALOFISH	253,500	30,417	3,400	408	-	-
CARP.	309,300	12,371	12,600	505	200	2
CATFISH AND BULLHEADS . . .	28,400	9,035	73,300	22,961	-	-
EEL, COMMON	-	-	(1)	4	-	-
GARFISH	5,100	205	200	7	-	-
PADDLEFISH.	12,900	1,417	1,000	107	-	-
SHEEPSHEAD.	35,400	2,840	11,700	931	-	-
STURGEON, SHOVELNOSE. . . .	8,300	2,496	300	83	-	-
SUCKERS	7,700	306	100	6	-	-
UNCLASSIFIED, FOR FOOD. . .	4,300	215	(1)	1	-	-
TURTLES, SNAPPER.	(1)	6	-	-	-	-
TOTAL	665,000	59,311	102,700	25,016	200	2

1/ LESS THAN 50 POUNDS.

IOWA - LANDINGS BY WATER, 1970

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER DRAINAGE AREA		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	400	17	-	-	-	-
BUFFALOFISH	996,900	119,631	30,800	1,329	5,100	43
CARP.	1,132,800	45,313	150,900	2,477	14,400	332
CATFISH AND BULLHEADS . . .	442,800	139,075	7,400	2,382	-	-
EEL, COMMON	(1)	9	-	-	-	-
GARFISH	12,500	498	-	-	-	-
GIZZARD SHAD.	-	-	-	-	200	8
PADDLEFISH.	39,300	4,320	600	91	-	-
SHEEPSHEAD.	491,600	39,327	16,800	255	-	-
STURGEON, SHOVELNOSE. . . .	19,900	5,964	-	-	-	-
SUCKERS	70,600	2,824	1,900	74	200	6
UNCLASSIFIED, FOR FOOD. . .	6,800	342	2,500	125	-	-
TURTLES, SNAPPER.	200	38	-	-	-	-
TOTAL	3,213,800	357,358	210,900	6,733	19,900	389

1/ LESS THAN 50 POUNDS.

MISSISSIPPI RIVER FISHERIES

KANSAS

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, HAND	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN, ON BOATS AND SHORE, CASUAL.	2	8	10	1	69	81
BOATS, MOTOR.	2	8	10	1	-	12
GEAR:						
NUMBER.	2	64	10	20	-	-
LENGTH, YARDS	144	-	-	-	-	-
SQUARE YARDS.	-	-	1,510	157	-	-

KANSAS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	100	33	2,000	605	700	222
CARP.	500	137	17,800	4,457	4,900	1,221
CATFISH AND BULLHEADS . . .	-	-	4,500	2,223	1,000	486
QUILLBACK	100	13	-	-	100	42
TOTAL	700	183	24,300	7,285	6,700	1,971

SPECIES	LINES, HAND		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS
CATFISH AND BULLHEADS . . .	100	50	-	-
MUSSEL SHELLS	-	-	600,000	21,000
TOTAL	100	50	600,000	21,000

KANSAS - LANDINGS BY WATERS, 1970

SPECIES	ARKANSAS RIVER DRAINAGE AREA		MISSOURI RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	2,800	860
CARP.	-	-	23,200	5,815
CATFISH AND BULLHEADS . . .	-	-	5,600	2,759
QUILLBACK	-	-	200	55
MUSSEL SHELLS	600,000	21,000	-	-
TOTAL	600,000	21,000	31,800	9,489

KENTUCKY

OPERATING UNITS BY GEAR, 1970

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	DIP NETS, COMMON	CROWFOOT BARS	TOTAL, EXCLUSIVE OF DUPLICATION
	- - - - - - - -	- - - - - - - -	- - - - - -	NUMBER	- - - - - -	- - - - - -	- - - - - -
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	20	35	39	59	-	20	121
CASUAL.	168	62	87	325	35	20	550
TOTAL	188	97	126	384	35	40	671
BOATS, MOTOR.	185	92	122	369	35	40	645
GEAR:							
NUMBER.	390	348	445	1,550	35	8	-
SQUARE YARDS.	-	[illegible]	89,000	-	-	-	-
HOOKS	-	-	-	139,500	-	-	-

KENTUCKY - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	FYKE AND HOOP NETS, FISH		GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	93,900	13,272	209,900	30,177	287,800	39,833
CARP.	47,800	2,543	54,400	2,722	84,100	4,480
CATFISH AND BULLHEADS . . .	62,600	19,793	65,400	20,722	85,500	26,701
PADDLEFISH.	-	-	31,800	4,770	36,800	5,578
QUILLBACK	2,000	191	-	-	1,600	145
SHEEPSHEAD.	10,600	689	9,000	523	17,200	1,056
STURGEON, SHOVELNOSE. . . .	500	75	-	-	400	60
SUCKERS	1,600	167	-	-	1,100	120
TOTAL	219,000	36,730	370,500	58,914	514,500	77,973

SPECIES	LINES, LONG OR SET WITH HOOKS		DIP NETS, COMMON		CROWFOOT BARS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	7,700	1,042	-	-	-	-
CARP.	5,300	273	-	-	-	-
CATFISH AND BULLHEADS . . .	853,500	259,501	-	-	-	-
GIZZARD SHAD.	-	-	559,000	17,217	-	-
SHEEPSHEAD.	18,000	1,216	-	-	-	-
STURGEON, SHOVELNOSE. . . .	2,800	385	-	-	-	-
SUCKERS	400	40	-	-	-	-
MUSSEL SHELLS	-	-	-	-	565,500	44,102
TOTAL	887,700	262,457	559,000	17,217	565,500	44,102

KENTUCKY - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER PROPER		OHIO RIVER DRAINAGE AREA			
			OHIO RIVER PROPER		TENNESSEE RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	34,000	6,120	149,100	20,129	134,400	16,801
CARP.	17,500	1,225	62,100	3,105	38,900	1,945
CATFISH AND BULLHEADS . . .	19,700	6,895	127,000	39,370	785,500	235,650
GIZZARD SHAD.	-	-	-	-	74,000	2,279
PADDLEFISH.	4,300	645	28,000	4,200	14,700	2,205
QUILLBACK	800	56	2,100	210	-	-
SHEEPSHEAD.	4,600	460	28,200	1,692	7,900	395
STURGEON, SHOVELNOSE. . . .	700	70	2,900	435	-	-
SUCKERS	100	10	1,700	187	-	-
MUSSEL SHELLS	-	-	442,600	34,225	48,600	4,968
TOTAL	81,700	15,481	843,700	103,553	1,104,000	264,243

(CONTINUED ON NEXT PAGE)

KENTUCKY - LANDINGS BY WATERS, 1970 - Continued

SPECIES	OHIO RIVER DRAINAGE AREA - CONTINUED			
	CUMBERLAND RIVER DRAINAGE AREA		UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	126,500	17,910	155,300	23,364
CARP	24,800	1,175	48,300	2,568
CATFISH AND BULLHEADS	93,600	31,339	41,200	13,463
GIZZARD SHAD	485,000	14,938	-	-
PADDLEFISH	16,100	2,198	5,500	1,100
QUILLBACK	-	-	700	70
SHEEPSHEAD	5,000	350	9,100	587
STURGEON, SHOVELNOSE	-	-	100	15
SUCKERS	1,200	120	100	10
MUSSEL SHELLS	-	-	74,300	4,909
TOTAL	752,200	68,030	334,600	46,086

LOUISIANA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS			GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS
			CRAWFISH	SHRIMP	TURTLE		
	NUMBER						
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	29	252	167	2	[illegible]	163	115
CASUAL	48	719	654	12	7	432	299
TOTAL	77	971	821	14	14	595	414
BOATS, MOTOR	51	971	821	14	14	595	414
GEAR:							
NUMBER	49	29,290	61,522	130	65	1,191	637
LENGTH, YARDS	12,900	-	-	-	-	-	-
SQUARE YARDS	-	-	-	-	-	421,447	125,719

ITEM	LINES		DIP NETS, COMMON	GRABS	TOTAL, EXCLUSIVE OF DUPLICATION
	HAND	LONG OR SET WITH HOOKS			
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	19	167	58	69	370
CASUAL	38	492	161	112	1,251
TOTAL	57	659	219	181	1,621
BOATS:					
MOTOR	57	659	212	181	1,606
OTHER	-	-	7	-	7
GEAR:					
NUMBER	176	1,567	219	181	-
HOOKS	106	214,350	-	-	-

LOUISIANA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		POTS AND TRAPS	
					CRAWFISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	5,700	312	30,000	1,645	-	-
BUFFALOFISH	104,500	14,202	937,800	127,529	-	-
CARP	10,800	388	84,300	3,025	-	-
CATFISH AND BULLHEADS	37,400	10,765	489,900	141,077	-	-
GARFISH	26,900	1,851	4,000	274	-	-
PADDLEFISH	2,400	168	1,500	105	-	-
SHAD	100	3	-	-	-	-
SHEEPSHEAD	24,700	2,859	315,300	36,562	-	-
CRAWFISH	-	-	-	-	1,821,900	542,925
TURTLES, SNAPPER	1,900	513	18,800	5,079	-	-
TOTAL	214,400	31,061	1,881,600	315,296	1,821,900	542,925

SPECIES	POTS AND TRAPS - CONTINUED				GILL NETS, ANCHOR, SET, OR STAKE	
	SHRIMP		TURTLE			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	-	-	20,900	1,147
BUFFALOFISH	-	-	-	-	743,500	101,102
CARP	-	-	-	-	63,700	2,283
CATFISH AND BULLHEADS	-	-	-	-	259,300	74,664
GARFISH	-	-	-	-	127,700	8,791
PADDLEFISH	-	-	-	-	7,500	525
SHAD	-	-	-	-	500	14
SHEEPSHEAD	-	-	-	-	210,300	24,384
SHRIMP	1,500	276	-	-	-	-
TURTLES, SNAPPER	-	-	15,900	4,293	1,900	513
TOTAL	1,500	276	15,900	4,293	1,435,300	213,423

SPECIES	TRAMMEL NETS		LINES			
			HAND		LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	14,700	803	-	-	4,600	251
BUFFALOFISH	517,900	70,419	-	-	-	-
CARP	35,000	1,283	-	-	-	-
CATFISH AND BULLHEADS	184,500	53,125	-	-	345,900	99,606
GARFISH	87,300	6,009	-	-	66,400	4,568
PADDLEFISH	5,000	350	-	-	3,800	266
SHEEPSHEAD	149,800	17,366	-	-	-	-
TURTLES, SNAPPER	1,000	270	4,000	1,080	36,700	9,909
TOTAL	995,200	149,625	4,000	1,080	457,400	114,600

SPECIES	DIP NETS, COMMON		GRABS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
SHAD	1,210,400	32,680	-	-
TURTLES, BABY	1,400	15,670	-	-
FROGS	6,000	3,660	31,800	19,398
TOTAL	1,217,800	52,010	31,800	19,398

MISSISSIPPI RIVER FISHERIES

LOUISIANA - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER PROPER		ATCHAFALAYA RIVER DRAINAGE AREA		RED RIVER DRAINAGE AREA: OUACHITA RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	3,100	168	45,900	2,520	100	6
BUFFALOFISH	131,400	17,867	952,100	129,481	118,600	16,121
CARP	17,300	621	83,200	2,988	9,900	353
CATFISH AND BULLHEADS	120,000	34,559	677,200	195,026	39,500	11,364
GARFISH	7,700	531	138,700	9,564	35,100	2,411
PADDLEFISH	1,500	105	3,800	266	800	56
SHAD	100,000	2,700	910,500	24,583	-	-
SHEEPSHEAD	41,200	4,779	459,400	53,284	36,200	4,190
CRAWFISH	15,000	4,470	1,766,900	526,535	-	-
SHRIMP	700	129	-	-	-	-
TURTLES:						
BABY	-	-	-	-	200	2,232
SNAPPER	4,000	1,080	20,000	5,400	3,700	999
FROGS	-	-	30,600	18,666	1,700	1,037
TOTAL	441,900	67,009	5,088,300	968,313	245,800	38,769

SPECIES	RED RIVER DRAINAGE AREA - CONTINUED: UNCLASSIFIED		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	23,400	1,279	3,400	185
BUFFALOFISH	923,700	125,595	177,900	24,188
CARP	50,800	1,848	32,600	1,169
CATFISH AND BULLHEADS	420,400	121,048	59,900	17,240
GARFISH	99,200	6,813	31,600	2,174
PADDLEFISH	13,100	917	1,000	70
SHAD	200,000	5,400	500	14
SHEEPSHEAD	125,300	14,516	38,000	4,402
CRAWFISH	40,000	11,920	-	-
SHRIMP	-	-	800	147
TURTLES:				
BABY	1,100	12,322	100	1,116
SNAPPER	40,900	11,046	11,600	3,132
FROGS	3,000	1,830	2,500	1,525
TOTAL	1,940,900	314,534	359,900	55,362

MINNESOTA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	WEIRS	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER						
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	22	-	22	-	104	4	142
CASUAL	190	84	79	45	115	72	425
TOTAL	212	84	101	45	219	76	567
BOATS:							
MOTOR	47	12	48	10	119	76	259
OTHER	23	-	-	-	-	-	23
GEAR:							
NUMBER	58	66	3,001	113	219	76	-
LENGTH, YARDS	42,527	-	-	-	-	-	-
SQUARE YARDS	-	-	-	-	334,600	-	-
HOOKS	-	-	-	-	-	17,[illegible]	-

MINNESOTA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		WEIRS		FYKE AND HOOP NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	2,100	42	2,200	44	13,000	262
BUFFALOFISH	842,800	102,148	33,300	3,993	87,200	10,455
BURBOT	-	-	-	-	16,600	365
CARP	2,377,900	74,815	678,600	20,901	127,400	3,924
CATFISH AND BULLHEADS	489,000	39,704	172,500	13,921	1,915,100	154,549
GARFISH	3,600	109	-	-	-	-
MOONEYE	200	10	-	-	-	-
QUILLBACK	2,200	45	-	-	-	-
SALMON, SILVER OR COHO	-	-	2,000	980	-	-
SHEEPSHEAD	169,200	8,460	-	-	-	-
SUCKERS	26,900	560	58,600	1,166	13,100	262
SUNFISH	800	45	-	-	-	-
WHITE BASS	40,700	3,724	-	-	-	-
YELLOW PERCH	3,200	106	30,200	762	20,000	504
TURTLES, SNAPPER	-	-	-	-	800	120
TOTAL	3,958,600	229,768	977,400	41,767	2,193,200	170,441

SPECIES	POTS AND TRAPS, FISH		GILL NETS, ANCHOR, SET, OR STAKE		LINES, LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	300	6	600	12	500	10
BUFFALOFISH	1,800	216	40,200	6,030	200	30
CARP	36,300	1,118	73,500	2,205	10,100	303
CATFISH AND BULLHEADS	129,400	10,442	2,200	1,016	34,200	9,246
GARFISH	-	-	200	6	500	15
MOONEYE	-	-	5,100	794	-	-
PIKE OR PICKEREL	-	-	36,900	7,251	-	-
QUILLBACK	-	-	400	8	-	-
SHEEPSHEAD	-	-	165,100	7,497	5,400	270
SUCKERS	5,300	106	100	2	100	2
TULLIBEE	900	19	-	-	-	-
WHITEFISH, COMMON	-	-	34,000	11,827	-	-
YELLOW PERCH	37,300	940	216,000	62,711	-	-
YELLOW PIKE	-	-	795,500	425,243	-	-
TOTAL	211,300	12,847	1,369,800	524,602	51,000	9,876

MINNESOTA - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA					
	MISSISSIPPI RIVER PROPER		MISSOURI RIVER DRAINAGE AREA		ST. CROIX RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	1,700	34	-	-	-	-
BUFFALOFISH	69,500	10,425	224,400	26,906	3,100	592
CARP	259,600	7,788	216,600	6,671	200,200	7,882
CATFISH AND BULLHEADS	36,800	10,026	15,800	1,275	5,100	412
GARFISH	4,100	123	-	-	100	2
MOONEYE	200	10	-	-	-	-
QUILLBACK	800	16	-	-	-	-
SHEEPSHEAD	34,000	1,700	-	-	8,500	385
SUCKERS	400	8	-	-	1,000	42
YELLOW PERCH	-	-	-	-	100	3
TOTAL	407,100	30,130	456,800	34,852	218,100	9,318

(CONTINUED ON NEXT PAGE)

MINNESOTA - LANDINGS BY WATERS, 1970 - Continued

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED		NORTHERN DRAINAGE AREA	
			RED RIVER OF THE NORTH DRAINAGE AREA	
	UNCLASSIFIED		RED LAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	9,800	197	-	-
BUFFALOFISH	675,600	81,004	-	-
BURBOT	10,100	203	-	-
CARP	2,613,100	80,485	-	-
CATFISH AND BULLHEADS	1,618,900	130,645	700	566
GARFISH	100	5	-	-
MOONEYE	-	-	5,100	794
PIKE OR PICKEREL	-	-	36,900	7,251
QUILLBACK	1,800	37	-	-
SHEEPSHEAD	133,400	6,710	163,800	7,432
SUCKERS	47,300	945	-	-
SUNFISH	800	45	-	-
TULLIBEE	900	19	-	-
WHITE BASS	40,700	3,724	-	-
WHITEFISH, COMMON	-	-	34,000	11,827
YELLOW PERCH	67,200	1,720	216,000	62,711
YELLOW PIKE	-	-	795,500	425,243
TURTLES, SNAPPER	800	120	-	-
TOTAL	5,220,500	305,859	1,252,000	515,824

SPECIES	NORTHERN DRAINAGE AREA - CONTINUED			
	RED RIVER OF THE NORTH DRAINAGE AREA - CONTINUED		UNCLASSIFIED	
	UNCLASSIFIED			
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	7,100	143	100	2
BUFFALOFISH	32,900	3,945	-	-
BURBOT	1,600	40	4,900	122
CARP	14,300	440	-	-
CATFISH AND BULLHEADS	907,700	73,252	157,400	12,702
SALMON, SILVER OR COHO	-	-	2,000	980
SUCKERS	4,600	92	50,800	1,011
YELLOW PERCH	20,900	526	2,500	63
TOTAL	989,100	78,438	217,700	14,880

MISSISSIPPI

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES		TOTAL, EXCLUSIVE OF DUPLICATION
					LONG OR SET WITH HOOKS	SNAG	
	NUMBER						
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	27	101	147	39	138	54	156
CASUAL	15	282	204	20	319	120	566
TOTAL	42	383	351	59	457	174	722
BOATS:							
MOTOR	20	357	332	58	422	160	652
OTHER	7	-	-	-	-	-	7
GEAR:							
NUMBER	16	3,910	741	90	1,583	517	-
LENGTH, YARDS	5,500	-	-	-	-	-	-
SQUARE YARDS	-	-	285,150	33,200	-	-	-
HOOKS	-	-	-	-	391,900	643,300	-

MISSISSIPPI - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		GILL NETS, ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	1,000	55	-	-
BUFFALOFISH	94,500	14,175	525,000	80,757	983,600	149,351
CARP	17,800	890	174,900	9,557	151,700	8,352
CATFISH AND BULLHEADS	3,800	1,132	199,700	63,927	72,100	22,565
GARFISH	3,000	224	4,000	299	26,000	1,945
PADDLEFISH	-	-	-	-	12,300	1,120
QUILLBACK	2,000	124	19,500	1,209	3,500	217
SHEEPSHEAD	1,200	96	16,600	1,445	23,800	1,878
SUCKERS	1,600	136	17,100	1,454	3,500	298
TOTAL	123,900	16,777	957,800	158,703	1,276,500	185,726

SPECIES	TRAMMEL NETS		LINES			
			LONG OR SET WITH HOOKS		SNAG	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	4,400	242	-	-
BUFFALOFISH	121,500	18,850	8,500	1,287	11,500	1,758
CARP	43,000	2,414	6,100	340	7,000	411
CATFISH AND BULLHEADS	14,800	4,698	495,100	155,243	91,600	28,034
GARFISH	4,100	307	5,000	374	3,700	277
PADDLEFISH	1,700	151	-	-	12,900	1,176
QUILLBACK	1,000	62	-	-	-	-
SHEEPSHEAD	4,100	328	12,200	871	3,000	210
TOTAL	190,200	26,810	531,300	158,357	129,700	31,866

MISSISSIPPI - LANDINGS BY WATERS, 1970

SPECIES	OHIO RIVER DRAINAGE AREA, TENNESSEE RIVER DRAINAGE AREA		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	5,400	297
BUFFALOFISH	18,500	2,497	1,726,100	263,681
CARP	9,500	570	391,000	21,394
CATFISH AND BULLHEADS	22,900	7,328	854,200	268,271
GARFISH	-	-	45,800	3,426
PADDLEFISH	4,800	480	22,100	1,967
QUILLBACK	-	-	26,000	1,612
SHEEPSHEAD	8,400	420	52,500	4,408
SUCKERS	-	-	22,200	1,888
TOTAL	64,100	11,295	3,145,300	566,944

MISSOURI

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	5	42	41	14	52
CASUAL	12	165	213	138	408
TOTAL	17	207	254	152	460
BOATS:					
MOTOR	8	189	237	146	428
OTHER	8	-	-	-	8
GEAR:					
NUMBER	8	1,154	229	140	-
LENGTH, YARDS	810	-	-	-	-
SQUARE YARDS	-	-	54,451	-	-
HOOKS	-	-	-	26,835	-

MISSOURI - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	-	-	300	24
BUFFALOFISH	6,200	1,527	98,000	24,488
CARP.	8,000	723	146,600	13,195
CATFISH AND BULLHEADS . . .	5,100	1,873	52,500	19,627
EEL, COMMON	(1)	2	(1)	2
GARFISH	300	31	1,100	115
PADDLEFISH.	1,300	192	1,600	244
QUILLBACK	1,500	148	9,600	957
SHEEPSHEAD.	1,100	167	32,900	4,941
STURGEON, SHOVELNOSE. . . .	100	18	200	58
SUCKERS	(1)	2	1,200	125
TOTAL	23,600	4,683	344,000	63,776

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	4,200	372	100	12
BUFFALOFISH	138,500	34,650	900	214
CARP.	124,100	11,165	3,300	300
CATFISH AND BULLHEADS . . .	51,800	19,571	33,700	12,736
EEL, COMMON	(1)	3	400	58
GARFISH	24,300	2,418	1,100	118
PADDLEFISH.	10,200	1,538	600	79
QUILLBACK	13,400	1,347	100	5
SHEEPSHEAD.	16,400	2,450	4,300	651
STURGEON, SHOVELNOSE. . . .	2,300	511	1,400	302
SUCKERS	1,100	112	-	-
TOTAL	386,300	74,137	45,900	14,475

1/ LESS THAN 50 POUNDS.

MISSOURI - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER PROPER		MISSOURI RIVER DRAINAGE AREA		MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	4,200	374	(1)	2	400	32
BUFFALOFISH	166,800	41,703	73,100	18,258	3,700	918
CARP.	177,900	16,010	100,500	9,043	3,600	330
CATFISH AND BULLHEADS . . .	87,300	32,717	54,800	20,720	1,000	370
EEL, COMMON	400	59	(1)	6	-	-
GARFISH	24,200	2,426	2,500	250	100	6
PADDLEFISH.	8,800	1,320	4,900	733	-	-
QUILLBACK	14,500	1,447	10,100	1,010	-	-
SHEEPSHEAD.	46,300	6,950	7,900	1,182	500	77
STURGEON, SHOVELNOSE. . . .	3,800	834	200	55	-	-
SUCKERS	1,600	164	700	74	(1)	1
TOTAL	535,800	104,004	254,700	51,333	9,300	1,734

1/ LESS THAN 50 POUNDS.

MISSISSIPPI RIVER FISHERIES

MONTANA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE, REGULAR	4	2	8	7	15
BOATS:					
MOTOR	1	1	6	4	10
OTHER	2	-	-	-	2
GEAR:					
NUMBER.	1	25	57	43	-
LENGTH, YARDS	1,000	-	-	-	-
SQUARE YARDS.	-	-	15,111	11,467	-

MONTANA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	29,800	2,323	3,200	1,136
CARP.	414,100	10,502	-	-
CATFISH AND BULLHEADS . . .	800	159	10,400	2,421
QUILLBACK	1,700	53	-	-
SHEEPSHEAD.	1,000	52	-	-
SUCKERS	27,100	759	-	-
TOTAL	474,500	13,848	13,600	3,557

SPECIES	GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	303,500	44,153
CARP.	-	-	5,500	83
CATFISH AND BULLHEADS . . .	-	-	1,800	409
MOONEYE	87,700	17,445	-	-
QUILLBACK	-	-	51,100	818
SHEEPSHEAD.	-	-	18,100	1,628
TOTAL	87,700	17,445	380,000	47,091

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

NEBRASKA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	POTS AND TRAPS, FISH	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	-	2	2	2	-	2
CASUAL.	28	53	30	96	1	147
TOTAL	28	55	32	98	1	149
BOATS:						
MOTOR	16	55	32	98	1	137
OTHER	16	-	-	-	-	16
GEAR:						
NUMBER.	14	187	156	98	1	-
LENGTH, YARDS	1,717	-	-	-	-	-
SQUARE YARDS.	-	-	-	13,067	-	-
HOOKS	-	-	-	-	200	-

NEBRASKA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		POTS AND TRAPS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	3,700	481	2,900	377	400	52
CARP.	61,300	2,046	18,800	658	9,100	319
CATFISH AND BULLHEADS . . .	12,700	316	8,600	903	9,000	946
GIZZARD SHAD.	7,000	175	-	-	-	-
GOLDFISH.	1,500	38	-	-	-	-
QUILLBACK	19,200	634	400	10	100	2
TOTAL	105,400	3,690	30,700	1,948	18,600	1,319

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	19,300	2,509	-	-
CARP.	47,600	1,666	-	-
CATFISH AND BULLHEADS . . .	6,700	703	100	10
QUILLBACK	3,600	90	-	-
TOTAL	77,200	4,968	100	10

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE MISSOURI RIVER DRAINAGE AREA.

MISSISSIPPI RIVER FISHERIES

NORTH DAKOTA

OPERATING UNITS BY GEAR, 1970

ITEM	TRAP NETS	FYKE AND HOOP NETS, FISH	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER		
FISHERMEN, ON BOATS AND SHORE, REGULAR	6	9	9
BOATS, MOTOR.	4	4	4
GEAR, NUMBER.	18	127	-

NORTH DAKOTA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	TRAP NETS		FYKE AND HOOP NETS, FISH	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	160,700	14,463
CARP.	-	-	13,500	406
CATFISH AND BULLHEADS . . .	22,300	2,007	86,400	7,772
PADDLEFISH.	-	-	500	41
YELLOW PERCH.	-	-	16,600	2,490
TOTAL	22,300	2,007	277,700	25,172

NORTH DAKOTA - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA, MISSOURI RIVER DRAINAGE AREA		NORTHERN DRAINAGE AREA			
			RED RIVER OF THE NORTH DRAINAGE AREA, UNCLASSIFIED		UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	-	-	-	-	160,700	14,463
CARP.	-	-	-	-	13,500	406
CATFISH AND BULLHEADS . . .	3,100	279	23,800	2,142	81,800	7,358
PADDLEFISH.	-	-	-	-	500	41
YELLOW PERCH.	-	-	16,600	2,490	-	-
TOTAL	3,100	279	40,400	4,632	256,500	22,268

OHIO

THE COMMERCIAL FISHERIES OF OHIO WERE CONFINED TO THE OHIO RIVER DRAINAGE AREA. THE LANDINGS CONSISTED OF 1,014,200 POUNDS OF MUSSEL SHELLS, VALUED AT $64,294. SIXTY CASUAL FISHERMEN EMPLOYING 42 MOTOR BOATS FISHED 120 CROWFOOT BARS.

OKLAHOMA

OPERATING UNITS BY GEAR, 1970

ITEM	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	BY HAND	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	20	10	-	20
CASUAL	23	-	29	52
TOTAL	43	10	29	72
BOATS, MOTOR	43	10	-	43
GEAR:				
NUMBER	180	25	-	-
SQUARE YARDS	70,700	6,700	-	-

OKLAHOMA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS		BY HAND	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	138,900	15,279	18,000	1,980	-	-
CARP	8,300	415	1,100	55	-	-
CATFISH AND BULLHEADS	83,600	25,080	11,500	3,450	-	-
PADDLEFISH	5,300	742	800	112	-	-
QUILLBACK	500	55	100	11	-	-
SHEEPSHEAD	1,900	190	500	50	-	-
WHITE BASS	1,600	208	200	26	-	-
MUSSEL SHELLS	-	-	-	-	162,000	5,672
TOTAL	240,100	41,969	32,200	5,684	162,000	5,672

NOTE:--THE COMMERCIAL FISHERIES WERE CONFINED TO THE ARKANSAS RIVER DRAINAGE AREA.

SOUTH DAKOTA

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET OR STAKE	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN, ON BOATS AND SHORE:				
REGULAR	15	17	8	19
CASUAL	34	10	6	40
TOTAL	49	27	14	59
BOATS:				
MOTOR	10	19	8	22
OTHER	5	-	-	5
GEAR:				
NUMBER	11	382	92	-
LENGTH, YARDS	8,760	-	-	-
SQUARE YARDS	-	-	18,400	-

SOUTH DAKOTA - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		FYKE AND HOOP NETS, FISH		GILL NETS, ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	452,900	45,293	337,100	33,705	495,000	49,502
CARP.	2,012,300	54,305	83,200	2,248	17,300	466
CATFISH AND BULLHEADS . . .	6,100	717	217,500	25,791	9,400	1,118
MOONEYE	-	-	24,400	8,533	36,600	12,801
SHEEPSHEAD.	68,700	2,061	3,600	107	5,300	160
SUCKERS	-	-	38,000	1,518	56,900	2,278
TOTAL	2,540,000	102,376	703,800	71,902	620,500	66,325

SOUTH DAKOTA - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA, MISSOURI RIVER DRAINAGE AREA		NORTHERN DRAINAGE AREA, RED RIVER OF THE NORTH DRAINAGE AREA, UNCLASSIFIED	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	1,283,800	128,380	1,200	120
CARP.	1,565,500	42,249	547,300	14,770
CATFISH AND BULLHEADS . . .	181,900	21,567	51,100	6,059
MOONEYE	61,000	21,334	-	-
SHEEPSHEAD.	9,100	273	68,500	2,055
SUCKERS	94,900	3,796	-	-
TOTAL	3,196,200	217,599	668,100	23,004

TENNESSEE

OPERATING UNITS BY GEAR, 1970

ITEM	FYKE AND HOOP NETS		GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES
	FISH	TURTLE			LONG OR SET WITH HOOKS
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	88	12	30	134	144
CASUAL.	140	10	49	138	401
TOTAL	228	22	79	272	545
BOATS, MOTOR.	228	22	79	272	536
GEAR:					
NUMBER.	1,960	175	129	1,057	3,836
SQUARE YARDS.	-	-	29,820	266,550	-
HOOKS	-	-	-	-	307,950

ITEM	LINES - CONTINUED	DIP NETS, COMMON	CROWFOOT BARS	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLICATION
	SNAG				
	NUMBER				
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	78	4	37	47	290
CASUAL.	138	15	5	8	548
TOTAL	216	19	42	55	838
BOATS, MOTOR.	216	9	42	50	814
GEAR:					
NUMBER.	721	19	84	55	-
HOOKS	339,800	-	-	-	-

TENNESSEE - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	FYKE AND HOOP NETS				GILL NETS, ANCHOR, SET, OR STAKE	
	FISH		TURTLE			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	23,500	1,175	-	-	900	45
BUFFALOFISH	181,400	22,076	-	-	140,300	16,403
CARP	123,000	6,162	-	-	62,300	2,679
CATFISH AND BULLHEADS	65,800	19,954	-	-	14,800	4,515
CRAPPIE	24,900	7,470	-	-	-	-
PADDLEFISH	-	-	-	-	13,000	1,360
QUILLBACK	10,700	690	-	-	3,000	150
SHEEPSHEAD	44,100	2,066	-	-	19,200	1,020
STURGEON, SHOVELNOSE	300	30	-	-	-	-
SUCKERS	1,000	60	-	-	-	-
YELLOW BASS	10,100	1,010	-	-	-	-
TURTLES:						
SLIDER	-	-	31,200	936	800	24
SNAPPER	-	-	6,000	900	-	-
TOTAL	484,800	60,693	37,200	1,836	254,300	26,196

SPECIES	TRAMMEL NETS		LINES			
			LONG OR SET WITH HOOKS		SNAG	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	1,000	50	-	-	-	-
BUFFALOFISH	1,378,500	158,745	14,900	1,767	14,600	1,786
CARP	484,500	21,167	11,000	496	16,200	780
CATFISH AND BULLHEADS	209,000	63,705	916,300	284,720	105,900	32,616
CRAPPIE	10,700	3,210	-	-	-	-
PADDLEFISH	40,400	3,849	200	20	44,400	4,404
QUILLBACK	50,400	2,848	3,000	162	-	-
SHEEPSHEAD	178,500	8,343	41,600	2,287	8,800	479
STURGEON, SHOVELNOSE	-	-	700	70	-	-
SUCKERS	11,600	720	-	-	-	-
TURTLES:						
SLIDER	3,500	105	-	-	-	-
SNAPPER	3,700	370	-	-	-	-
TOTAL	2,371,800	263,112	987,700	289,522	189,900	40,065

SPECIES	DIP NETS, COMMON		CROWFOOT BARS		DIVING OUTFITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
MUSSEL SHELLS	-	-	511,000	57,192	1,836,300	168,942
TURTLES, BABY	100	900	-	-	-	-
TOTAL	100	900	511,000	57,192	1,836,300	168,942

TENNESSEE - LANDINGS BY WATERS, 1970

SPECIES	OHIO RIVER DRAINAGE AREA				MISSISSIPPI RIVER DRAINAGE AREA, UNCLASSIFIED	
	TENNESSEE RIVER DRAINAGE AREA		CUMBERLAND RIVER DRAINAGE AREA			
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	-	-	25,400	1,270
BUFFALOFISH	1,181,900	131,996	101,500	15,225	446,300	53,556
CARP	408,300	15,875	48,700	3,409	240,000	12,000
CATFISH AND BULLHEADS	1,008,000	314,370	57,000	17,100	246,800	74,040
CRAPPIE	-	-	-	-	35,600	10,680
PADDLEFISH	68,300	6,128	10,700	1,605	19,000	1,900
QUILLBACK	56,500	3,165	3,100	310	7,500	375
SHEEPSHEAD	73,400	4,423	17,000	1,700	201,800	8,072
STURGEON, SHOVELNOSE	-	-	-	-	1,000	100
SUCKERS	12,000	720	600	60	-	-
YELLOW BASS	-	-	-	-	10,100	1,010
MUSSEL SHELLS	2,316,600	223,592	30,700	2,542	-	-
TURTLES:						
BABY	-	-	-	-	100	900
SLIDER	-	-	-	-	35,500	1,065
SNAPPER	3,700	370	-	-	6,000	900
TOTAL	5,128,700	700,639	269,300	41,951	1,275,100	[illegible]

MISSISSIPPI RIVER FISHERIES

TEXAS

OPERATING UNITS BY GEAR, 1970

ITEM	FYKE AND HOOP NETS, FISH	GILL NETS, ANCHOR, SET, OR STAKE	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	TOTAL, EXCLUSIVE OF DUPLICATION
	- - - - - - - -	- - - - - - - -	NUMBER-	- - - - - - - -	- - - - - - - -
FISHERMEN, ON BOATS AND SHORE:					
REGULAR	19	73	14	48	77
CASUAL	38	184	24	148	245
TOTAL	57	257	38	196	322
BOATS, MOTOR	53	236	35	182	291
GEAR:					
NUMBER	306	924	114	560	-
SQUARE YARDS	-	208,900	24,800	-	-
HOOKS	-	-	-	42,500	-

TEXAS - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	FYKE AND HOOP NETS, FISH		GILL NETS, ANCHOR, SET, OR STAKE	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	500	25	500	25
BUFFALOFISH	64,200	9,177	1,169,900	157,249
CARP	10,000	425	93,000	4,549
CATFISH AND BULLHEADS	9,000	3,600	89,200	35,680
GARFISH	1,100	82	73,200	5,109
QUILLBACK	-	-	3,400	340
SHEEPSHEAD	4,000	400	21,400	2,140
SUCKERS	-	-	13,500	730
TURTLES, SNAPPER	-	-	4,000	400
TOTAL	88,800	13,709	1,468,100	206,222

SPECIES	TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BUFFALOFISH	62,500	10,180	1,400	224
CARP	6,300	315	100	5
CATFISH AND BULLHEADS	62,500	25,000	113,100	45,240
GARFISH	5,300	318	1,000	60
SHEEPSHEAD	5,400	540	9,800	980
TOTAL	142,000	36,353	125,400	46,509

TEXAS - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA, RED RIVER DRAINAGE AREA, UNCLASSIFIED		NORTHERN DRAINAGE AREA, GULF OF MEXICO DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	500	25	500	25
BUFFALOFISH	259,000	41,335	1,039,000	135,495
CARP	23,400	1,170	86,000	4,124
CATFISH AND BULLHEADS	273,800	109,520	-	-
GARFISH	18,900	1,134	61,700	4,435
QUILLBACK	-	-	3,400	340
SHEEPSHEAD	28,700	2,870	11,900	1,190
SUCKERS	12,400	620	1,100	110
TURTLES, SNAPPER	100	10	3,900	390
TOTAL	616,800	156,684	1,207,500	146,109

WEST VIRGINIA

THE COMMERCIAL FISHERIES OF WEST VIRGINIA WERE CONFINED TO THE OHIO RIVER DRAINAGE AREA. LANDINGS WERE 100 POUNDS OF BUFFALOFISH, VALUED AT $15; 1,700 POUNDS OF CARP, VALUED AT $170; AND 12,200 POUNDS OF CATFISH AND BULLHEADS, VALUED AT $6,100. EIGHT CASUAL FISHERMEN EMPLOYING EIGHT MOTOR BOATS FISHED 90 FYKE AND HOOP NETS (FISH).

WISCONSIN

OPERATING UNITS BY GEAR, 1970

ITEM	HAUL SEINES, COMMON	OTTER TRAWLS, FISH	WEIRS	TRAP NETS	FYKE AND HOOP NETS, FISH	SLAT TRAPS	GILL NETS, ANCHOR, SET, OR STAKE
	NUMBER						
FISHERMEN, ON BOATS AND SHORE:							
REGULAR	66	4	1	-	38	13	55
CASUAL	110	-	2	21	26	37	83
TOTAL	176	4	3	21	64	50	138
BOATS:							
MOTOR	87	1	[illegible]	14	44	38	92
OTHER	47	-	-	-	-	-	-
GEAR:							
NUMBER	54	1	3	112	1,155	1,131	90
LENGTH, YARDS	29,81[illegible]	-	-	-	-	-	-
SQUARE YARDS	-	-	-	-	-	-	88,033
YARDS AT MOUTH	-	13	-	-	-	-	-

ITEM	TRAMMEL NETS	LINES, LONG OR SET WITH HOOKS	ELECTRICAL DEVICES	CROWFOOT BARS	DIVING OUTFITS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN, ON BOATS AND SHORE:						
REGULAR	2	36	-	-	-	138
CASUAL	5	357	2	10	16	625
TOTAL	7	393	2	10	16	763
BOATS:						
MOTOR	[illegible]	379	2	10		590
OTHER	-	-	-	-	-	47
GEAR:						
NUMBER	5	379	2	20	16	-
SQUARE YARDS	667	-	-	-	-	-
HOOKS	-	116,977	-	-	-	-

WISCONSIN - LANDINGS OF CATCH BY GEAR, 1970

SPECIES	HAUL SEINES, COMMON		OTTER TRAWLS, FISH		WEIRS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	3,500	83	-	-	-	-
BUFFALOFISH	661,800	101,522	100	16	-	-
BURBOT	39,200	5,869	100	9	-	-
CARP	4,611,700	141,882	23,200	737	112,400	3,574
CATFISH AND BULLHEADS	20,200	5,657	-	-	-	-
GARFISH	4,900	238	-	-	-	-
GIZZARD SHAD	500	13	-	-	-	-
MOONEYE	(1)	1	400	34	-	-
QUILLBACK	14,800	357	-	-	-	-
SHEEPSHEAD	902,800	52,330	933,600	31,461	(1)	1
STURGEON, SHOVELNOSE	100	15	-	-	-	-
SUCKERS	42,800	1,101	-	-	-	-
TURTLES, SNAPPER	700	117	-	-	-	-
TOTAL	6,303,000	309,185	957,400	32,257	112,400	3,575

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

WISCONSIN - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES	TRAP NETS		FYKE AND HOOP NETS, FISH		SLAT TRAPS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	700	145	1,800	37	(1)	1
BUFFALOFISH	100	10	134,200	20,137	100	11
BURBOT.	7,500	1,131	-	-	-	-
CARP.	448,000	14,247	89,700	2,690	100	3
CATFISH AND BULLHEADS . . .	67,900	6,111	173,800	47,470	55,500	15,563
EEL, COMMON	-	-	100	27	(1)	8
GARFISH	-	-	1,200	25	-	-
MOONEYE	200	25	300	10	-	-
QUILLBACK	-	-	6,000	151	-	-
SHEEPSHEAD.	240,900	8,118	47,700	2,862	(1)	1
STURGEON, SHOVELNOSE. . . .	-	-	700	141	100	9
SUCKERS	380,100	10,074	157,600	4,150	100	3
TURTLES, SNAPPER.	-	-	1,200	208	200	26
TOTAL	1,145,400	39,861	614,300	77,908	56,100	15,625

SPECIES	GILL NETS, ANCHOR, SET, OR STAKE		TRAMMEL NETS		LINES, LONG OR SET WITH HOOKS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN.	200	3	-	-	4,100	83
BUFFALOFISH	278,100	41,717	1,000	152	3,400	509
CARP.	748,100	22,450	1,000	29	62,300	1,870
CATFISH AND BULLHEADS . . .	9,100	2,580	1,100	324	334,800	91,782
EEL, COMMON	(1)	1	-	-	200	37
GARFISH	700	15	(1)	1	1,400	27
MOONEYE	(1)	1	-	-	200	5
QUILLBACK	1,900	48	-	-	(1)	1
SHEEPSHEAD.	33,600	2,015	(1)	1	43,700	2,620
STURGEON, SHOVELNOSE. . . .	(1)	1	-	-	1,600	344
SUCKERS	1,300	33	100	1	2,000	49
UNCLASSIFIED, FOR FOOD. . .	400	21	-	-	(1)	1
TURTLES, SNAPPER.	1,100	200	-	-	5,400	968
TOTAL	1,074,500	69,085	3,200	508	459,100	98,296

SPECIES	ELECTRICAL DEVICES		CROWFOOT BARS		DIVING OUTFITS	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CARP.	200	6	-	-	-	-
SUCKERS	400	9	-	-	-	-
MUSSEL SHELLS	-	-	123,600	8,480	185,400	12,718
TOTAL	600	15	123,600	8,480	185,400	12,718

1/ LESS THAN 50 POUNDS.

WISCONSIN - LANDINGS BY WATERS, 1970

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA			
	MISSISSIPPI RIVER PROPER		ILLINOIS RIVER DRAINAGE AREA	
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	9,500	194	-	-
BUFFALOFISH	820,500	123,092	96,100	15,251
CARP	3,551,000	106,536	59,000	1,876
CATFISH AND BULLHEADS	594,500	163,376	-	-
EEL, COMMON	300	73	-	-
GARFISH	7,600	153	-	-
MOONEYE	500	17	-	-
QUILLBACK	22,700	557	-	-
SHEEPSHEAD	958,100	57,479	-	-
STURGEON, SHOVELNOSE	2,500	510	-	-
SUCKERS	41,900	1,044	-	-
UNCLASSIFIED, FOR FOOD	400	22	-	-
MUSSEL SHELLS	309,000	21,198	-	-
TURTLES, SNAPPER	8,400	1,488	100	18
TOTAL	6,326,900	475,739	155,200	17,145

SPECIES	MISSISSIPPI RIVER DRAINAGE AREA - CONTINUED		NORTHERN DRAINAGE AREA, UNCLASSIFIED	
	UNCLASSIFIED			
	POUNDS	DOLLARS	POUNDS	DOLLARS
BOWFIN	-	-	800	158
BUFFALOFISH	162,000	25,705	200	26
BURBOT	-	-	46,800	7,009
CARP	1,569,200	49,898	917,500	29,178
CATFISH AND BULLHEADS	-	-	67,900	6,111
GARFISH	600	141	(1)	12
GIZZARD SHAD	500	13	-	-
MOONEYE	-	-	600	59
SHEEPSHEAD	17,700	[illegible]	1,226,500	41,333
SUCKERS	7,100	[illegible]	535,400	14,190
TURTLES, SNAPPER	100	11	(1)	2
TOTAL	1,757,200	6,551	2,795,700	98,078

1/ LESS THAN 50 POUNDS.

MISSISSIPPI RIVER FISHERIES

GREAT LAKES AND MISSISSIPPI RIVER LANDINGS - BY STATES, 1970

STATE	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALABAMA	-	-	2,496	382	2,496	382
ARKANSAS	-	-	10,981	2,346	10,981	2,346
IDAHO	-	-	1,403	81	1,403	81
ILLINOIS	405	84	4,817	586	5,222	670
INDIANA	334	78	768	94	1,102	172
IOWA	-	-	3,445	365	3,445	365
KANSAS	-	-	632	31	632	31
KENTUCKY	-	-	3,116	497	3,116	497
LOUISIANA	-	-	8,077	1,444	8,077	1,444
MICHIGAN	21,169	2,875	-	-	21,169	2,875
MINNESOTA	2,479	163	8,761	989	11,240	1,152
MISSISSIPPI	-	-	3,209	578	3,209	578
MISSOURI	-	-	800	157	800	157
MONTANA	-	-	956	82	956	82
NEBRASKA	-	-	232	12	232	12
NEW YORK	534	121	-	-	534	121
NORTH DAKOTA	-	-	300	27	300	27
OHIO	8,420	1,101	1,014	64	9,434	1,165
OKLAHOMA	-	-	434	53	434	53
PENNSYLVANIA	505	94	-	-	505	94
SOUTH DAKOTA	-	-	3,864	241	3,864	241
TENNESSEE	-	-	6,673	908	6,673	908
TEXAS	-	-	1,824	303	1,824	303
WEST VIRGINIA	-	-	14	6	14	6
WISCONSIN	37,715	1,916	11,035	668	48,750	2,584
TOTAL	71,561	6,432	74,851	9,914	146,412	16,346

NOTE:--INCLUDES LANDINGS IN THE INTERNATIONAL LAKES OF NORTHERN MINNESOTA.

MISSISSIPPI RIVER FISHERIES

GREAT LAKES AND MISSISSIPPI RIVER LANDINGS - BY SPECIES, 1970

SPECIES	GREAT LAKES		MISSISSIPPI RIVER AND TRIBUTARIES		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALEWIVES	33,461	381	-	-	33,461	381
BLUE PIKE	(1)	(1)	-	-	(1)	(1)
BOWFIN	1	(1)	170	6	171	[illegible]
BUFFALOFISH	27	4	21,261	2,969	21,288	2,973
BURBOT	253	9	63	7	316	16
CARP	6,583	316	18,476	663	25,059	979
CATFISH AND BULLHEADS	958	356	14,436	3,891	15,394	4,247
CHUBS	10,977	1,924	76	2	11,053	1,926
CRAPPIE	14	5	35	11	49	16
EEL, COMMON	50	13	(1)	(1)	50	13
GARFISH	-	-	680	44	680	44
GIZZARD SHAD	5	(1)	662	21	667	21
GOLDFISH	163	8	2	(1)	165	8
LAKE HERRING	1,364	169	-	-	1,364	169
LAKE TROUT	275	160	-	-	275	160
MOONEYE	-	-	157	39	157	39
PADDLEFISH	-	-	605	68	605	68
PIKE OR PICKEREL	91	11	37	7	128	18
QUILLBACK	21	1	451	26	472	27
ROCK BASS	34	2	-	-	34	2
SALMON:						
RED OR SOCKEYE	-	-	60	34	60	34
SILVER OR COHO	2,243	315	2	1	2,245	316
SAUGER	17	3	-	-	17	3
SHAD	-	-	1,211	33	1,211	33
SHEEPSHEAD	1,060	53	5,645	399	6,705	452
SMELT	3,555	96	-	-	3,555	96
STURGEON:						
COMMON	(1)	(1)	-	-	(1)	(1)
SHOVELNOSE	-	-	64	17	64	17
SUCKERS	1,444	46	1,698	63	3,142	109
SUNFISH	10	2	1	(1)	11	2
TULLIBEE	694	24	1	(1)	695	24
WHITE BASS	1,103	275	43	4	1,146	279
WHITEFISH:						
COMMON	2,375	1,338	34	12	2,409	1,350
MENOMINEE	198	41	-	-	198	41
WHITE PERCH	111	28	-	-	111	28
YELLOW BASS	-	-	10	1	10	1
YELLOW PERCH	4,283	762	324	68	4,607	830
YELLOW PIKE	191	90	795	426	986	516
UNCLASSIFIED FISH, FOR FOOD	-	-	9	(1)	9	(1)
CRAWFISH	-	-	1,822	543	1,822	543
SHRIMP	-	-	2	(1)	2	(1)
MUSSEL SHELLS	-	-	5,764	465	5,764	465
TURTLES:						
BABY	-	-	4	40	4	40
SLIDER	-	-	76	4	76	4
SNAPPER	-	-	135	27	135	27
SOFT-SHELL	-	-	2	(1)	2	(1)
FROGS	-	-	38	23	38	23
TOTAL	71,561	6,432	74,851	9,914	146,412	16,346

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--INCLUDES LANDINGS IN THE INTERNATIONAL LAKES OF NORTHERN MINNESOTA.

SECTION 10 - HAWAII FISHERIES

Landings of commercially caught fish and shellfish in the State of Hawaii were 11.1 million pounds worth $3.9 million to the fishermen--an increase of 1.5 million pounds and $417,000 compared with 1969. Tuna landings increased from 7.1 million pounds in 1969 to 8.5 million in 1970, and accounted largely for the gain. The principal increase was in skipjack tuna landings of 7.3 million pounds--1.4 million (23 percent) greater than in 1969. Compared with 1969, landings of yellowfin tuna (683,000 pounds) increased 66 percent but albacore, bluefin, and little tuna declined.

Landings of the white crab (*Portunus sanguinolentus*) called "kuahonu" by native Hawaiians were 40,800 pounds--112 percent more than in 1969. The marked increase followed a change from using nets in shallow inshore waters to using traps in deeper waters.

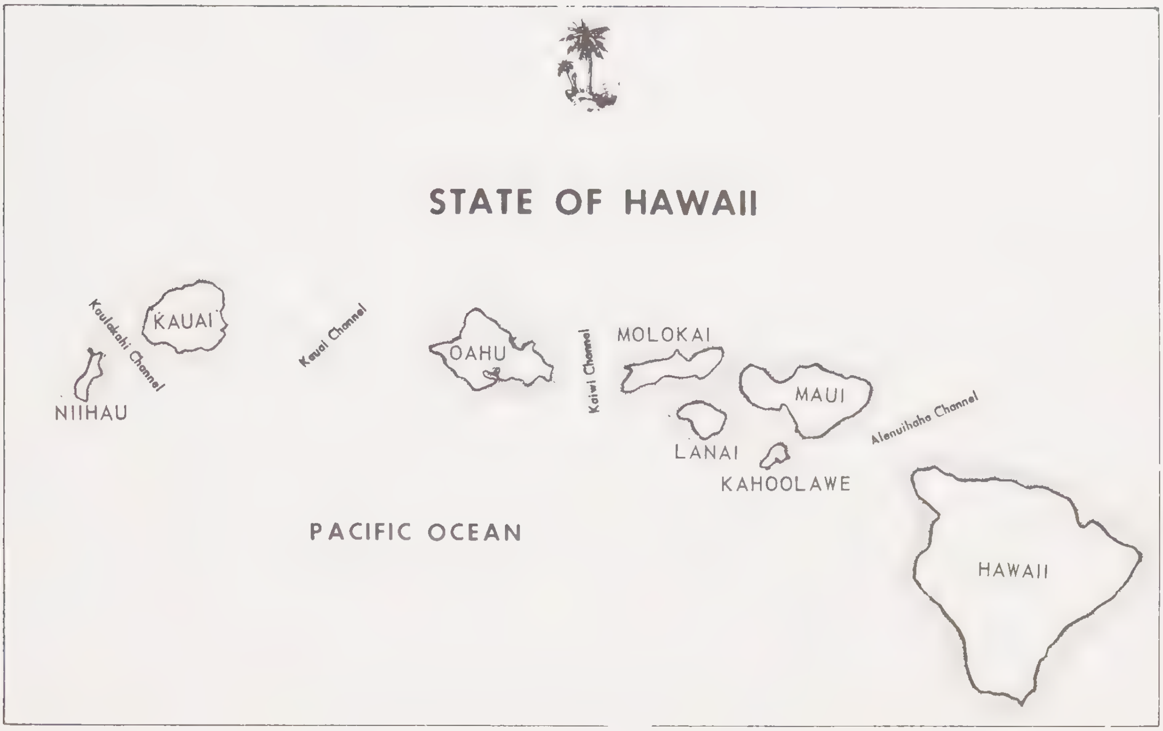
Hawaii State biologists continued investigations intended to develop a mariculture industry for prawns. Assisted by a Federal Aid to States cooperative program administered by NMFS, they began production-type experiments designed to culture the giant Malaysian prawn in ponds. Previous research had led to successful rearing of large numbers of prawns from fertilization through the various juvenile stages.

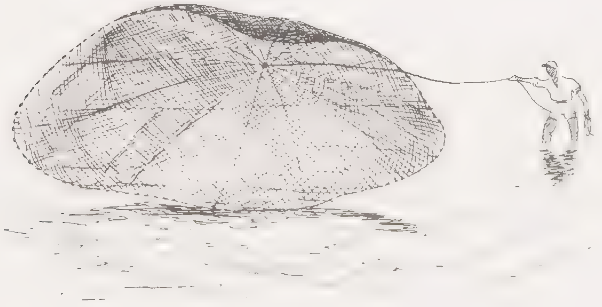
Fishery products were landed at six of the eight principal islands that form the State of Hawaii. Oahu led the islands with a production of 9.1 million pounds. The Island of Hawaii was next with 830,500 pounds, followed by Maui with 806,400 pounds. The rest of the landings were made at Kauai, Lanai, and Molokai. In 1970, 1,436 fishermen operated 82 vessels of 5 net tons or more, 637 motor boats, and 49 other boats.

The data in this section were assembled and prepared for publication by the NMFS's area office, Honolulu, Hawaii, largely from information collected by the Hawaii Department of Land and Natural Resources, Division of Fish and Game.

The following tables contain summarized and detailed information on the 1970 operating units and landings by islands of the State of Hawaii.

HAWAII FISHERIES


STATE OF HAWAII
KAUAI
Kaulakahi Channel
NIIHAU
Kauai Channel
OAHU
Kaiwi Channel
MOLOKAI
MAUI
LANAI
KAHOOLAWE
Alenuihaha Channel
PACIFIC OCEAN
HAWAII



Cast net

HAWAII FISHERIES

SECTIONAL SUMMARIES

SUMMARY OF LANDINGS, 1970

ISLAND	FISH		SHELLFISH ET AL.		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAWAII	818	338	13	17	831	355
MOLOKAI	11	5	1	1	12	6
OAHU.	8,974	3,125	137	119	9,111	3,244
KAUAI	279	109	3	6	282	115
MAUI.	791	161	16	16	806	177
LANAI	9	4	(1)	(1)	9	4
TOTAL	10,881	3,741	169	159	11,051	3,900

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--THIS TABLE MAY NOT ADD DUE TO ROUNDING.

SUMMARY OF OPERATING UNITS, 1970

ITEM	TOTAL
	NUMBER
FISHERMEN:	
ON VESSELS.	333
ON BOATS AND SHORE. . .	1,103
TOTAL	1,436
VESSELS, MOTOR.	80
GROSS TONNAGE	2,278
BOATS:	
MOTOR	637
OTHER	49

NOTE:--DATA ARE NOT AVAILABLE ON THE NUMBER AND SIZE OF GEAR USED IN THE HAWAII FISHERIES. THERE WERE 37 FISHERY WHOLESALING AND PROCESSING ESTABLISHMENTS IN THE STATE OF HAWAII IN 1970.

HAWAII - LANDINGS BY SPECIES, 1970

SPECIES		TOTAL	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS
OCEAN CATCH:	FISH		
AMBERJACK	KAHALA.	68,226	25,696
BARRACUDA	KAKU.	4,329	1,154
BARRACUDA, JAPANESE . . .	KAWELEA	2,973	1,457
BIGEYE SCAD	AKULE	892,476	358,295
BONEFISH.	OIO	20,018	[illegible],125
CREVALLE:			
	OMAKA	1,424	1,221
BLUE.	OMILU	3,622	2,185
JACK.	ULUA.	52,471	33,070
DAMSELFISH.	KUPIPI	1,074	467
DOLPHIN	MAHIMAHI.	54,414	54,820
EELS:			
CONGER.	PUHI.	1,217	192
MORAY	PUHI.	1,307	452
GOATFISHES:			
	KUMU.	7,711	11,300
	MALU.	622	405
	MOANO	11,902	6,128
	MOELUA.	5,545	3,323
	WEKE.	36,352	15,129
	WEKE-ULA.	10,335	10,435
MACKEREL SCAD	OPELU	169,062	97,829
MARLIN:			
BLACK	A'U	173,699	68,963
SAILFISH.	A'U LEPE.	2,640	485
SHORTBILL	A'U	22,916	4,872
SILVER.	A'U	1,460	1,013
STRIPED	A'U	339,461	217,865

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS BY SPECIES, 1970 - Continued

SPECIES		TOTAL	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS
OCEAN CATCH CONTINUED:	FISH CONTINUED		
MILKFISH	AWA	14,547	4,865
MOUNTAIN BASS	AHOLEHOLE	2,759	2,360
MULLET	AMAAMA	18,706	22,326
PARROT FISH	UHU	5,693	2,233
RED BIGEYE	AWEOWEO	1,655	775
RUDDERFISH	NENUE	3,267	1,538
RUNNER	LAE	1,474	347
SARDINE	MAKIAWA	1,050	525
SEA BASS, BLACK	HAPUUPUU	39,788	25,227
SNAPPERS:			
GRAY	UKU	48,075	28,394
PINK	KALIKALI	4,451	4,958
PINK	OPAKAPAKA	49,838	39,587
RED	ULAULA OR EHU	16,458	20,824
RED	ULAULA KOAE	38,153	59,878
SPOT	A'AWA	1,219	195
SQUIRRELFISH	UU	18,098	13,907
SURGEON FISH:			
	KALA	22,182	3,762
	MAIKO	622	198
	PALANI	17,422	4,335
	PUALU	8,963	1,955
SWORDFISH, BROADBILL	A'U	11,823	3,514
TANG:			
CONVICT	MANINI	8,736	5,728
ORANGE SPOT	NAENAE	1,320	271
TENPOUNDER	AWAAWA	2,372	672
THREADFIN	MOI	11,261	11,957
TRIGGERFISH	HUMUHUMU	1,612	673
TUNA:			
ALBACORE	AHIPALAHA	20,001	10,639
BIGEYE AND BLUEFIN	AHI	476,753	510,015
LITTLE	KAWAKAWA	16,778	4,799
SKIPJACK	AKU	7,342,176	1,496,917
YELLOWFIN	AHI	683,013	498,979
TOTAL TUNA		8,538,721	2,521,349
WAHOO	ONO	[illegible]	[illegible]
UNCLASSIFIED		24,742	12,280
TOTAL FISH		10,864,372	3,732,748
	SHELLFISH ET AL.		
CRABS:			
	KONA	37,379	47,885
	KUAHONU	38,265	45,346
	MOALA	93	50
	PAPAI	5,622	2,784
	SAMOAN	35	44
LIMPET	OPIHI	4,246	20,346
LOBSTERS:			
SLIPPER	ULAPAPAPA	222	241
SPINY	ULA	5,037	6,206
OCTOPUS	HEE	5,902	4,739
SEAWEED	LIMU	49,302	16,165
SHRIMP	OPAE	2,317	3,860
SQUID	MUHEE	5,657	3,150
TREPANG (SEA CUCUMBER)		360	440
TURTLE	HONU	11,869	5,017
TOTAL SHELLFISH ET AL.		166,306	156,273
TOTAL OCEAN CATCH		11,030,678	3,889,021
POND CATCH: [1]	FISH		
BARRACUDA	KAKU	626	565
BONEFISH	OIO	3,524	1,410
CREVALLE, JACK	ULUA	326	297
MILKFISH	AWA	10,468	5,235
MOUNTAIN BASS	AHOLEHOLE	58	27
MULLET	AMAAMA	425	482

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS BY SPECIES, 1970 - Continued

SPECIES		TOTAL	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS
POND CATCH CONTINUED: 1/	FISH CONTINUED		
RUNNER	LAE	297	61
TENPOUNDER	AWAAWA	148	51
THREADFIN	MOI	8	7
UNCLASSIFIED		966	357
TOTAL FISH		16,846	8,492
	SHELLFISH		
CRABS:			
	KUAHONU	2,521	2,175
	MOALA	290	122
	SAMOAN	243	222
TOTAL SHELLFISH		3,054	2,519
TOTAL POND CATCH		19,900	11,011
GRAND TOTAL		11,050,578	3,900,032

1/ SALT-WATER.

NOTE:--STATISTICS ON THE LANDINGS OF FISH, CRUSTACEANS, AND SUCH MOLLUSKS AS SQUID AND OCTOPUS ARE SHOWN IN ROUND (LIVE) WEIGHT. DATA ON UNIVALVE MOLLUSKS (LIMPETS) REPRESENT THE WEIGHT OF MEATS EXCLUDING THE SHELL. THE WEIGHT OF MEATS FOR LIMPETS IS BASED ON A YIELD OF 20 PERCENT.

SKIPJACK TUNA

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1970

ITEM	HAWAII							
			LINES					
	POTS AND TRAPS	GILL NETS	HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS	LIFT NETS	CAST NETS
	NUMBER							
FISHERMEN:								
ON VESSELS	-	-	6	20	10	15	-	-
ON BOATS AND SHORE	5	16	189	3	86	16	12	9
TOTAL	5	16	195	23	96	31	12	9
VESSELS, MOTOR	-	-	3	2	10	2	-	-
GROSS TONNAGE	-	-	42	90	146	58	-	-
BOATS:								
MOTOR	2	7	133	2	72	2	5	2
OTHER	-	3	28	-	1	-	1	1

ITEM	HAWAII - CONTINUED					MOLOKAI		
								LINES
	BY HAND	SPEAR	POND 1/	MISCELLANEOUS GEAR	TOTAL, EXCLUSIVE OF DUPLICATION	POTS AND TRAPS	GILL NETS	HAND
	NUMBER							
FISHERMEN:								
ON VESSELS	-	-	-	-	34	-	-	-
ON BOATS AND SHORE	23	10	2	18	283	1	26	3
TOTAL	23	10	2	18	317	1	26	3
VESSELS, MOTOR	-	-	-	-	13	-	-	-
GROSS TONNAGE	-	-	-	-	255	-	-	-
BOATS:								
MOTOR	-	2	-	4	163	1	12	3
OTHER	-	-	-	3	28 204	-	1	-

ITEM	MOLOKAI - CONTINUED							OAHU
	LINES - CONTINUED							
	TROLL	CAST NETS	BY HAND	SPEAR	POND 1/	MISCELLANEOUS GEAR	TOTAL, EXCLUSIVE OF DUPLICATION	HAUL SEINES
	NUMBER							
FISHERMEN, ON BOATS AND SHORE	2	1	1	2	2	4	37	1
BOATS:								
MOTOR	2	-	-	2	-	-	16	12
OTHER	-	-	-	-	-	-	1	-

ITEM	OAHU - CONTINUED							
				LINES				
	BAG NETS	POTS AND TRAPS	GILL NETS	HAND	POLE AND LINE	TROLL	LONG OR SET WITH HOOKS	LIFT NETS
	NUMBER							
FISHERMEN:								
ON VESSELS	27	3	29	28	119	38	76	-
ON BOATS AND SHORE	-	54	131	224	4	59	18	11
TOTAL	27	57	160	252	123	97	94	11
VESSELS, MOTOR	3	1	5	20	13	21	19	-
GROSS TONNAGE	86	32	147	412	589	488	520	-
BOATS:								
MOTOR	1	32	67	168	12	40	10	10
OTHER	-	-	3	1	-	1	-	-

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1970 - Continued

ITEM	OAHU - CONTINUED						KAUAI	
	CAST NETS	BY HAND	SPEARS	POND 1/	MISCEL-LANEOUS GEAR	TOTAL, EXCLUSIVE OF DUPLI-CATION	BAG NETS	GILL NETS
	-NUMBER-							
FISHERMEN:								
ON VESSELS.	-	-	-	-	-	275	5	5
ON BOATS AND SHORE. . . .	12	7	24	2	113	506	-	28
TOTAL	12	7	24	2	113	781	5	33
VESSELS, MOTOR.	-	-	-	-	-	66	1	1
GROSS TONNAGE	-	-	-	-	-	1,887	31	31
BOATS:								
MOTOR	3	2	6	-	34	288	-	19
OTHER	1	-	-	1	1	5	-	8

ITEM	KAUAI - CONTINUED							
	LINES			LIFT NETS	CAST NETS	BY HAND	SPEARS	POND 1/
	HAND	POLE AND LINE	TROLL					
	-NUMBER-							
FISHERMEN:								
ON VESSELS.	-	5	-	-	-	-	-	-
ON BOATS AND SHORE. . . .	36	-	30	2	4	2	2	-
TOTAL	36	5	30	2	4	2	2	-
VESSELS, MOTOR.	-	1	-	-	-	-	-	-
GROSS TONNAGE	-	31	-	-	-	-	-	-
BOATS:								
MOTOR	31	-	29	2	3	1	2	-
OTHER	-	-	-	-	2	-	-	-

ITEM	KAUAI - CONTINUED		MAUI				
	MISCEL-LANEOUS GEAR	TOTAL, EXCLUSIVE OF DUPLI-CATION	HAUL SEINES	POTS AND TRAPS	GILL NETS	LINES	
						HAND	POLE AND LINE
	-NUMBER-						
FISHERMEN:							
ON VESSELS.	-	5	-	-	-	-	19
ON BOATS AND SHORE. . . .	8	79	2	3	50	115	1
TOTAL	8	84	2	3	50	115	20
VESSELS, MOTOR.	-	1	-	-	-	-	2
GROSS TONNAGE	-	31	-	-	-	-	105
BOATS:							
MOTOR	2	58	2	3	32	86	1
OTHER	-	10	-	-	3	3	-

ITEM	MAUI - CONTINUED					
	LINES - CONTINUED	LIFT NETS	BY HAND	SPEARS	MISCEL-LANEOUS GEAR	TOTAL, EXCLUSIVE OF DUPLI-CATION
	TROLL					
	-NUMBER-					
FISHERMEN:						
ON VESSELS.	-	-	-	-	-	19
ON BOATS AND SHORE. . . .	20	16	5	11	47	188
TOTAL	20	16	5	11	47	207
VESSELS, MOTOR.	-	-	-	-	-	2
GROSS TONNAGE	-	-	-	-	-	105
BOATS:						
MOTOR	16	10	-	3	8	106
OTHER	-	-	-	-	1	4

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - OPERATING UNITS BY ISLAND AND GEAR, 1970 - Continued

ITEM	LANAI					
	GILL NETS	LINES			CAST NETS	TOTAL, EXCLUSIVE OF DUPLICATION
		HAND	POLE AND LINE	TROLL		
	NUMBER					
FISHERMEN, ON BOATS AND SHORE.	2	7	2	[illegible]	1	10
BOATS, OTHER.	1	6	-	5	-	[illegible]

1/ SEINES, MISCELLANEOUS NETS, AND BY HAND.

NOTE:--DATA ARE INCOMPLETE, NUMBER AND QUANTITY OF GEAR NOT AVAILABLE.

HAWAII - LANDINGS BY ISLANDS, 1970

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCEAN CATCH:	FISH						
AMBERJACK	KAHALA.	12,384	3,907	-	-	42,800	16,880
BARRACUDA	KAKU.	335	104	-	-	3,441	887
BARRACUDA, JAPANESE .	KAWELEA	2,569	1,311	-	-	141	59
BIGEYE SCAD	AKULE	56,612	31,308	1,193	592	607,600	246,804
BONEFISH.	OIO	3,132	684	24	7	9,539	3,493
CREVALLE:							
	OMAKA	-	-	-	-	1,424	1,227
BLUE.	ULUA OMILU.	-	-	53	27	3,254	2,594
JACK.	ULUA.	7,855	3,683	1,013	697	44,707	24,680
DAMSELFISH.	KUPIPI.	13	8	-	-	1,032	441
DOLPHIN	MAHIMAHI.	6,426	3,841	195	87	55,246	49,661
EELS:							
CONGER.	PUHI.	22	11	-	-	1,195	181
MORAY	PUHI.	-	-	-	-	6,307	452
GOATFISHES:							
	KUMU.	142	167	237	395	6,648	10,219
	MALU.	-	-	-	-	621	405
	MOANO	1,593	1,281	-	-	10,255	7,318
	WEKE.	658	377	5,325	1,936	22,524	8,785
	WEKE-ULA.	901	877	-	-	9,030	9,290
MACKEREL SCAD	OPELU	98,185	50,360	15	10	47,648	37,132
MARLIN:							
BLACK	A'U	86,147	22,801	-	-	86,251	45,779
SAILFISH.	A'U LEPE.	1,563	315	-	-	1,077	171
SHORTBILL	A'U	-	-	-	-	22,916	4,872
SILVER.	A'U	135	47	-	-	1,325	966
STRIPED	A'U	27,366	12,604	-	-	311,873	205,139
MILKFISH.	AWA	113	21	-	-	10,740	3,693
MOUNTAIN BASS	AHOLEHOLE	351	454	14	9	535	494
MULLET.	AMAAMA.	137	153	252	252	15,755	19,222
PARROT FISH	UHU	1,101	373	1,183	468	2,698	1,133
RED BIGEYE.	AWEOWEO	953	480	7	5	94	38
RUDDERFISH.	NENUE	422	166	194	83	1,395	706
RUNNER.	LAE	2	1	16	2	391	80
SARDINE	MAKIAWA	-	-	-	-	1,050	525
SEA BASS, BLACK . . .	HAPUUPUU.	1,177	722	-	-	34,857	22,720
SNAPPERS:							
GRAY.	UKU	3,428	1,839	-	-	34,123	21,192
PINK.	KALIKALI.	503	371	-	-	3,911	4,571
PINK.	OPAKAPAKA	3,671	2,667	-	-	19,283	20,505
RED	ULAULA OR EHU . . .	3,497	3,334	-	-	12,419	17,130
RED	ULAULA KOAE	2,061	2,246	-	-	35,469	57,208
SPOT.	A'AWA	499	82	40	4	450	60
SQUIRRELFISH.	UU.	11,851	8,923	524	418	3,549	2,960
SURGEON FISH:							
	KALA.	78	40	172	28	20,522	3,303
	MAIKO	335	164	-	-	287	34
	PALANI.	46	13	36	7	15,452	3,731
	PUALU	4	1	-	-	8,758	1,863
SWORDFISH, BROADBILL.	A'U	71	17	-	-	11,752	3,497
TANG:							
CONVICT	MANINI.	2,873	1,486	105	59	4,101	3,140
ORANGE SPOT	NAENAE.	-	-	-	-	1,320	271

SEE FOOTNOTES AT END OF TABLE

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS BY ISLANDS, 1970 - Continued

SPECIES		HAWAII		MOLOKAI		OAHU	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCEAN CATCH CONTINUED:	FISH CONTINUED						
TENPOUNDER	AWAAWA	-	-	8	2	2,233	643
THREADFIN	MOI	141	138	-	-	2,822	3,325
TRIGGERFISH	HUMUHUMU	759	222	-	-	853	451
TUNA:							
ALBACORE	AHIPALAHA	1,404	811	-	-	18,597	9,828
BIGEYE AND BLUEFIN	AHI	54,689	46,099	-	-	421,629	463,807
LITTLE	KAWAKAWA	406	163	15	4	12,638	3,885
SKIPJACK	AKU	242,795	27,986	-	-	6,428,998	1,366,030
YELLOWFIN	AHI	156,200	95,959	-	-	506,520	393,033
TOTAL TUNA		455,494	171,018	15	4	7,388,382	2,236,583
WAHOO	ONO	14,782	5,284	-	-	16,124	4,565
UNCLASSIFIED		7,125	3,680	293	106	11,347	5,400
TOTAL FISH		817,512	337,581	10,914	5,198	8,957,526	3,116,478
SHELLFISH ET AL.							
CRABS:							
	KONA	2,843	2,558	-	-	32,975	44,222
	PAPAI	2,696	1,483	-	-	2,445	982
	MOALA	-	-	-	-	93	50
	SAMOAN	-	-	-	-	35	44
	KUAHONU	-	-	-	-	38,238	45,331
LIMPET 2/	OPIHI	1,889	9,434	63	205	-	-
LOBSTERS:							
SLIPPER	ULAPAPAPA	-	-	-	-	222	241
SPINY	ULA	99	98	-	-	4,747	5,948
OCTOPUS	HEE	25	34	645	565	3,422	2,702
SEAWEED	LIMU	61	136	-	-	48,707	14,596
SHRIMP	OPAE	321	527	-	-	789	1,306
SQUID	MUHEE	4,967	2,580	-	-	-	-
TREPANG (SEA CUCUMBER)		39	39	-	-	321	401
TURTLE	HONU	68	17	-	-	1,537	811
TOTAL SHELLFISH ET AL.		13,008	16,906	708	770	133,531	116,634
TOTAL OCEAN CATCH		830,520	354,487	11,622	5,968	9,091,057	3,233,112
POND CATCH 3/:	FISH						
BARRACUDA	KAKU	-	-	-	-	626	565
BONEFISH	OIO	-	-	-	-	3,524	1,410
CREVALLE, JACK	ULUA	-	-	-	-	326	297
MILKFISH	AWA	-	-	-	-	10,468	5,235
MOUNTAIN BASS	AHOLEHOLE	-	-	-	-	58	27
MULLET	AMAAMA	20	26	76	61	329	395
RUNNER	LAE	-	-	-	-	297	61
TENPOUNDER	AWAAWA	-	-	-	-	148	51
THREADFIN	MOI	-	-	-	-	8	7
UNCLASSIFIED		-	-	310	119	656	238
TOTAL FISH		20	26	380	180	16,440	8,286
SHELLFISH							
CRABS:							
	KUAHONU	-	-	35	28	2,486	2,147
	MOALA	-	-	13	11	277	111
	SAMOAN	-	-	-	-	243	222
TOTAL SHELLFISH		-	-	48	39	3,006	2,480
TOTAL POND CATCH		20	26	434	219	19,446	10,766
GRAND TOTAL		830,540	354,513	12,056	6,187	9,110,503	3,243,878

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS BY ISLANDS, 1970 - Continued

SPECIES		KAUAI		MAUI		LANAI	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
OCEAN CATCH:	FISH						
AMBERJACK	KAHALA	10,389	4,262	2,590	622	63	25
BARRACUDA	KAKU	226	65	282	76	45	22
BARRACUDA, JAPANESE	KAWELEA	56	18	207	69	-	-
BIGEYE SCAD	AKULE	185,278	62,753	40,138	15,836	1,655	1,002
BONEFISH	OIO	5,129	1,372	2,189	568	5	1
CREVALLE:							
BLUE	ULUA OMILU	57	21	258	143	-	-
JACK	ULUA	4,227	1,608	4,570	2,359	99	43
DAMSELFISH	KUPIPI	3	1	26	17	-	-
DOLPHIN	MAHIMAHI	1,544	732	927	469	76	30
GOATFISHES:							
	KUMU	193	166	491	353	-	-
	MALU	1	(1)	-	-	-	-
	MOANO	16	10	38	19	-	-
	MOELUA	-	-	5,524	3,300	21	23
	WEKE	3,664	1,353	6,181	2,678	-	-
	WEKE-ULA	404	268	-	-	-	-
MACKEREL SCAD	OPELU	13,260	5,349	9,579	4,790	375	188
MARLIN:							
BLACK	A'U	1,020	280	281	103	-	-
STRIPED	A'U	222	122	-	-	-	-
MILKFISH	AWA	32	40	3,662	1,111	-	-
MOUNTAIN BASS	AHOLEHOLE	85	65	1,736	1,313	38	25
MULLET	AMAAMA	2,148	2,409	414	290	-	-
PARROT FISH	UHU	79	37	632	222	-	-
RED BIGEYE	AWEOWEO	45	19	556	233	-	-
RUDDERFISH	NENUE	883	416	373	167	-	-
RUNNER	LAE	-	-	1,065	264	-	-
SEA BASS, BLACK	HAPUUPUU	2,626	1,242	1,128	543	-	-
SNAPPERS:							
GRAY	UKU	7,405	3,513	3,101	1,839	18	11
PINK	KALIKALI	-	-	37	16	-	-
PINK	OPAKAPAKA	418	182	26,256	16,089	210	144
RED	ULAULA OR EHU	214	154	328	206	-	-
RED	ULAULA KOAE	21	11	602	413	-	-
SPOT	A'AWA	-	-	230	49	-	-
SQUIRRELFISH	UU	1,054	882	541	352	579	372
SURGEON FISH:							
	KALA	186	72	1,224	319	-	-
	PALANI	1,223	392	665	192	-	-
	PUALU	-	-	201	91	-	-
TANG, CONVICT	MANINI	409	247	855	572	393	224
TENPOUNDER	AWAAWA	15	4	116	23	-	-
THREADFIN	MOI	7,252	7,716	1,046	778	-	-
TUNA:							
BIGEYE AND BLUEFIN	AHI	-	-	435	109	-	-
LITTLE	KAWAKAWA	614	197	2,934	488	171	62
SKIPJACK	AKU	4,201	1,266	661,301	100,035	4,881	1,600
YELLOWFIN	AHI	18,753	9,441	1,455	512	85	34
TOTAL TUNA		23,568	10,904	666,125	101,144	5,137	1,696
WAHOO	ONO	4,904	1,754	1,277	513	22	11
UNCLASSIFIED		479	232	5,466	2,834	32	28
TOTAL FISH		278,735	108,671	790,917	160,975	8,768	3,845
SHELLFISH ET AL.							
CRABS:							
	KONA	884	680	677	425	-	-
	KUAHONU	12	9	15	6	-	-
	PAPAI	-	-	481	319	-	-
LIMPET 2/	OPIHI	643	3,112	1,651	7,595	-	-
LOBSTER, SPINY	ULA	-	-	191	160	-	-
OCTOPUS	HEE	415	389	1,258	965	137	84
SEAWEED	LIMU	534	1,433	-	-	-	-
SHRIMP	OPAE	-	-	1,207	2,027	-	-
SQUID	MUHEE	690	570	-	-	-	-
TURTLE	HONU	228	129	10,036	4,060	-	-
TOTAL SHELLFISH ET AL.		3,406	6,322	15,516	15,557	137	84
TOTAL OCEAN CATCH 3/		282,141	114,993	806,433	176,532	8,905	3,929
GRAND TOTAL		282,141	114,993	806,433	176,532	[illegible]	[illegible]

1/ LESS THAN 50 CENTS.

2/ THE WEIGHT OF MEAT FOR LIMPETS IS BASED ON A YIELD OF 20 PERCENT.

3/ SALT-WATER.

HAWAII - LANDINGS OF CATCH BY GEAR, 1970

SPECIES		HAUL SEINES		BAG NETS	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS
AMBERJACK	KAHALA	15	5	445	366
BARRACUDA	KAKU	175	39	-	-
BIGEYE SCAD	AKULE	5,161	2,498	690,489	248,647
BONEFISH	OIO	1,583	579	11,677	3,515
CREVALLE:					
BLUE	ULUA OMILU	75	36	-	-
JACK	ULUA	6,045	5,667	324	228
DAMSELFISH	KUPIPI	320	155	84	46
EEL, MORAY	PUHI	111	6	58	6
GOATFISHES:					
	KUMU	213	355	2	4
	MOANO	31	23	-	-
	WEKE	1,866	934	251	66
MACKEREL SCAD	OPELU	352	149	2,939	1,695
MILKFISH	AWA	3,239	1,082	758	228
MULLET	AMAAMA	396	406	-	-
PARROT FISH	UHU	1,282	547	333	142
RUDDERFISH	NENUE	939	507	-	-
RUNNER	LAE	951	229	-	-
SARDINE	MAKIAWA	-	-	1,050	525
SNAPPER, GRAY	UKU	25	12	-	-
SPOT	A'AWA	430	76	-	-
SQUIRRELFISH	UU	35	38	-	-
SURGEON FISH:					
	KALA	6,479	1,338	3,508	514
	MAIKO	174	16	-	-
	PALANI	5,909	1,364	1,353	427
	PUALU	6,054	1,251	529	122
TANG, CONVICT	MANINI	1,047	945	252	162
TENPOUNDER	AWAAWA	159	38	265	73
THREADFIN	MOI	-	-	3,465	3,471
TUNA, LITTLE	KAWAKAWA	4	1	-	-
UNCLASSIFIED		382	165	79	24
CRABS	PAPAI	2	1	-	-
LOBSTER, SPINY	ULA	28	42	-	-
TOTAL		43,482	18,504	717,861	260,261

SPECIES		POTS AND TRAPS		GILL NETS, ANCHOR SET, OR STAKE		LINES	
						HAND	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
AMBERJACK	KAHALA	696	282	20	9	66,952	24,996
BARRACUDA	KAKU	6	5	43	31	1,092	407
BARRACUDA, JAPANESE	KAWELEA	-	-	123	41	2,850	1,416
BIGEYE SCAD	AKULE	-	-	48,164	18,578	148,562	88,497
BONEFISH	OIO	-	-	2,292	791	4,466	1,240
CREVALLE:							
	OMAKA	-	-	265	205	1,159	1,022
BLUE	ULUA OMILU	1,368	923	64	36	2,098	1,785
JACK	ULUA	4,575	3,091	1,413	1,114	48,753	22,474
DAMSELFISH	KUPIPI	628	240	3	1	7	4
DOLPHIN	MAHIMAHI	-	-	-	-	23,010	16,741
EELS:							
CONGER	PUHI	1,183	179	7	1	16	8
MORAY	PUHI	6,126	439	-	-	-	-
GOATFISHES:							
	KUMU	5,764	8,720	704	879	746	994
	MALU	616	401	1	(1)	5	4
	MOANO	10,030	7,137	8	6	1,782	1,420
	MOELUA	-	-	-	-	5,543	3,322
	WEKE	10,814	3,798	21,782	8,776	503	290
	WEKE-ULA	2,570	2,096	-	-	7,765	8,339
MACKEREL SCAD	OPELU	-	-	200	60	88,862	58,409
MARLIN:							
BLACK	A'U	-	-	-	-	1,503	644
SAILFISH	A'U LEPE	-	-	-	-	323	70
STRIPED	A'U	-	-	-	-	2,246	1,271
MILKFISH	AWA	-	-	9,506	3,239	978	302
MOUNTAIN BASS	AHOLEHOLE	-	-	2,327	1,841	156	233
MULLET	AMAAMA	2	3	18,179	21,763	53	77
PARROT FISH	UHU	513	223	1,619	630	362	118
RED BIGEYE	AWEOWEO	33	15	594	250	941	462
RUDDERFISH	NENUE	107	45	1,681	768	189	89
RUNNER	LAE	-	-	513	113	10	5
SEA BASS, BLACK	HAPUUPUU	-	-	-	-	39,788	25,227

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES		POTS AND TRAPS		GILL NETS, ANCHOR, SET, OR STAKE		LINES	
						HAND	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
SNAPPERS:							
GRAY	UKU	450	277	70	24	47,530	28,081
PINK	KALIKALI	-	-	-	-	4,451	4,958
PINK	OPAKAPAKA	78	56	5	2	49,744	39,515
RED	ULAULA OR EHU	-	-	-	-	16,436	20,792
RED	ULAULA KOAE	-	-	-	-	38,153	59,878
SPOT	A'AWA	23	2	89	14	677	103
SQUIRRELFISH	UU	796	655	1,474	1,230	13,867	10,421
SURGEON FISH:							
	KALA	3,801	224	7,445	1,508	35	7
	MAIKO	21	3	92	14	35	19
	PALANI	8,548	2,125	1,360	342	116	28
	PUALU	475	93	1,155	337	228	46
SWORDFISH, BROADBILL	A'U	-	-	-	-	46	16
TANG:							
CONVICT	MANINI	2,489	1,679	262	205	11	9
ORANGE SPOT	NAENAE	1,144	195	176	76	-	-
TENPOUNDER	AWAAWA	-	-	1,815	494	133	67
THREADFIN	MOI	-	-	6,019	6,564	17	18
TRIGGERFISH	HUMUHUMU	853	451	-	-	759	222
TUNA:							
ALBACORE	AHIPALAHA	-	-	-	-	39	17
BIGEYE AND BLUEFIN	AHI	-	-	-	-	2,212	1,948
LITTLE	KAWAKAWA	-	-	-	-	16,234	4,592
SKIPJACK	AKU	-	-	-	-	7,329,715	1,492,360
YELLOWFIN	AHI	-	-	-	-	98,030	35,590
WAHOO	ONO	-	-	-	-	10,469	3,298
UNCLASSIFIED		3,755	1,801	2,022	784	13,217	7,353
CRABS:							
	KUAHONU	38,199	45,287	20	12	33	37
	MOALA	-	-	4	2	-	-
	PAPAI	2,643	1,458	15	18	-	-
	SAMOAN	21	27	-	-	-	-
LOBSTERS:							
SLIPPER	ULAPAPAPA	222	241	-	-	-	-
SPINY	ULA	1,699	2,023	3,064	3,834	2	2
OCTOPUS	HEE	1,257	839	47	46	167	123
SHRIMP	OPAE	477	557	-	-	-	-
SQUID	MUHEE	-	-	-	-	5,471	2,990
TURTLE	HONU	-	-	9,980	3,905	-	-
TOTAL		111,982	85,590	144,622	78,543	8,098,547	1,972,356

SPECIES		LINES - CONTINUED				LIFT NETS	
		TROLL		LONG OR SET WITH HOOKS			
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
AMBERJACK	KAHALA	98	38	-	-	-	-
BARRACUDA	KAKU	190	44	2,823	628	-	-
CREVALLE:							
BLUE	OMILU	17	5	-	-	-	-
JACK	ULUA	1,335	481	-	-	-	-
DOLPHIN	MAHIMAHI	17,058	14,577	24,346	23,502	-	-
MACKEREL SCAD	OPELU	-	-	-	-	76,709	37,516
MARLIN:							
BLACK	A'U	92,618	27,305	79,578	41,014	-	-
SAILFISH	A'U LEPE	144	26	2,173	390	-	-
SHORTBILL	A'U	-	-	22,916	4,872	-	-
SILVER	A'U	135	47	1,325	966	-	-
STRIPED	A'U	7,348	3,054	329,867	213,540	-	-
SNAPPERS:							
PINK	OPAKAPAKA	-	-	11	14	-	-
RED	ULAULA OR EHU	-	-	22	32	-	-
SURGEON FISH	KALA	-	-	-	-	16	2
SWORDFISH, BROADBILL	A'U	-	-	11,777	3,498	-	-
TUNA:							
ALBACORE	AHIPALAHA	-	-	19,962	10,622	-	-
BIGEYE AND BLUEFIN	AHI	103	52	474,438	508,015	-	-
LITTLE	KAWAKAWA	540	206	-	-	-	-
SKIPJACK	AKU	11,376	4,169	1,085	388	-	-
YELLOWFIN	AHI	31,409	14,863	553,574	448,526	-	-
WAHOO	ONO	12,324	4,756	14,316	4,073	-	-
UNCLASSIFIED		30	11	2,348	491	4	3

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

HAWAII - LANDINGS OF CATCH BY GEAR, 1970 - Continued

SPECIES		LINES - CONTINUED				LIFT NETS	
		TROLL		LONG OR SET WITH HOOKS			
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
CRABS:							
	KONA	-	-	-	-	37,379	47,885
	KAUHONU	-	-	-	-	13	10
	MOALA	-	-	-	-	89	48
	PAPAI	-	-	-	-	2,962	1,307
	SAMOAN	-	-	-	-	14	17
LOBSTER, SPINY	ULA	-	-	-	-	24	32
TOTAL		174,725	69,634	1,540,561	1,260,571	117,210	86,820

SPECIES		CAST NETS		SPEARS		BY HAND	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
GOATFISH	WEKE	7	2	-	-	-	-
MOUNTAIN BASS	AHOLEHOLE	242	252	-	-	-	-
MULLET	AMAAMA	76	77	-	-	-	-
PARROT FISH	UHU	102	26	-	-	-	-
RUDDERFISH	NENUE	144	45	-	-	-	-
SQUIRRELFISH	UU	100	75	-	-	-	-
SURGEON FISH:							
	KALA	53	18	-	-	-	-
	MAIKO	148	72	-	-	-	-
	PUALU	4	2	-	-	-	-
TANG, CONVICT	MANINI	4,406	2,564	-	-	-	-
THREADFIN	MOI	298	268	-	-	-	-
UNCLASSIFIED		264	165	-	-	-	-
LIMPET 2/	OPIHI	-	-	-	-	4,246	20,346
LOBSTER, SPINY	ULA	-	-	-	-	213	266
OCTOPUS	HEE	-	-	4,431	3,731	-	-
TOTAL		5,844	3,566	4,431	3,731	4,459	20,612

SPECIES		NETS, UNCLASSIFIED		OTHER GEAR		VARIOUS GEAR, FISH POND	
ENGLISH	HAWAIIAN	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
BARRACUDA	KAKU	-	-	-	-	626	565
BIGEYE SCAD	AKULE	100	75	-	-	-	-
BONEFISH	OIO	-	-	-	-	3,524	1,410
CREVALLE, JACK	ULUA	-	-	26	15	326	297
DAMSELFISH	KUPIPI	-	-	32	21	-	-
EELS:							
CONGER	PUHI	-	-	11	4	-	-
MORAY	PUHI	-	-	12	1	-	-
GOATFISHES:							
	KUMU	15	9	267	339	-	-
	MOANO	8	4	43	38	-	-
	MOELUA	2	1	-	-	-	-
	WEKE	3,029	1,213	100	50	-	-
MILKFISH	AWA	54	12	12	2	10,468	5,235
MOUNTAIN BASS	AHOLEHOLE	9	7	25	27	58	27
MULLET	AMAAMA	-	-	-	-	425	482
PARROT FISH	UHU	23	8	1,459	539	-	-
RED BIGEYE	AWEOWEO	-	-	87	48	-	-
RUDDERFISH	NENUE	90	36	117	48	-	-
RUNNER	LAE	-	-	-	-	297	61
SQUIRRELFISH	UU	40	21	1,786	1,467	-	-
SURGEON FISH:							
	KALA	805	123	40	28	-	-
	MAIKO	137	68	15	6	-	-
	PALANI	10	3	126	46	-	-
	PUALU	518	104	-	-	-	-
TANG, CONVICT	MANINI	143	88	126	76	-	-
TENPOUNDER	AWAAWA	-	-	-	-	148	51
THREADFIN	MOI	1,462	1,636	-	-	8	7
UNCLASSIFIED		145	56	2,496	1,427	966	357
CRABS:							
	KUAHONU	-	-	-	-	2,521	2,175
	MOALA	-	-	-	-	290	122
	SAMOAN	-	-	-	-	243	222
LOBSTER, SPINY	ULA	7	7	-	-	-	-
SEAWEED	LIMU	-	-	49,302	16,165	-	-
SHRIMP	OPAE	1,396	2,460	444	843	-	-
SQUID	MUHEE	-	-	186	160	-	-
TREPANG (SEA CUCUMBER)		-	-	360	440	-	-
TURTLE	HONU	-	-	1,889	1,112	-	-
TOTAL		7,993	5,931	58,961	22,902	19,900	11,011

1/ LESS THAN 50 CENTS.

2/ THE WEIGHT OF MEAT FOR LIMPETS IS BASED ON A YIELD OF 20 PERCENT.

HAWAII, AMERICAN SAMOA, AND PUERTO RICO

PROCESSED FISHERY PRODUCTS, 1970

ITEM	STATE AND AREAS	UNIT	QUANTITY	DOLLARS
AMBERJACK:				
SPECIALTIES, FRESH, (CAKES, BREADED COOKED.	HAWAII	POUNDS	(1)	(1)
SUN-DRIED.	DO	DO	(1)	(1)
BIGEYE SCAD, SUN-DRIED.	DO	DO	5,550	5,95[illegible]
BONEFISH, SPECIALTIES, FRESH, (CAKES, BREADED, COOKED).	DO	DO	(1)	(1)
COD SPECIALTIES, SUN-DRIED (IN HOT SAUCE).	DO	DO	7,060	16,998
CREVALLE, SUN-DRIED.	DO	DO	(1)	(1)
MACKEREL, JACK, SUN-DRIED.	DO	DO	(1)	(1)
MARLIN, SPECIALTIES, FRESH (CAKES, BREADED, COOKED).	DO	DO	1,[illegible],000	1,126,500
SABLEFISH:				
SPECIALTIES, FRESH:				
IN HOT SAUCE	DO	DO	(1)	(1)
IN RICE WINE MASH.	DO	DO	21,300	20,215
SALTED	DO	DO	62,000	37,800
SUN-DRIED.	DO	DO	(1)	(1)
SALMON:				
SPECIALTIES, FRESH (ROE, IN RICE WINE MASH).	DO	DO	(1)	(1)
SALTED	DO	DO	12,005	18,951
TENPOUNDER SPECIALTIES, FRESH (MIX). .	DO	DO	64,000	60,196
TUNA:				
SPECIALTIES, FRESH (CAKES, BREADED COOKED)	DO	DO	(1)	(1)
CANNED:				
ALBACORE	HAWAII, AMERICAN SAMOA, AND PUERTO RICO	STANDARD CASES	(1)	(1)
LIGHTMEAT.	DO	DO	(1)	(1)
TOTAL		DO	(1)	(1)
ANIMAL FOOD.	DO	DO	(1)	(1)
CURED:				
SALTED	HAWAII	POUNDS	5,865	9,058
SALTED PASTE	DO	DO	47,589	22,648
SMOKED	DO	DO	(1)	(1)
SUN-DRIED.	DO	DO	89,778	166,475
MEAL AND SCRAP	AMERICAN SAMOA AND PUERTO RICO	TONS	(1)	(1)
OIL.	PUERTO RICO	1000 LBS	(1)	(1)
WAHOO, CANNED	AMERICAN SAMOA	STANDARD CASES	(1)	(1)
OCTOPUS:				
SPECIALTIES, FRESH (COOKED WITH SAUCES)	HAWAII	POUNDS	(1)	(1)
SUN-DRIED.	DO	DO	(1)	(1)
SQUID, SALTED IN HOT SAUCE	DO	DO	(1)	(1)
UNCLASSIFIED:				
PACKAGED FRESH AND FROZEN FISH AND SHELLFISH	DO	DO	236,195,994	180,140,014
CANNED	HAWAII, AMERICAN SAMOA, AND PUERTO RICO	STANDARD CASES	(1)	(1)
CURED.	DO	DO	123,206	121,359
INDUSTRIAL	AMERICAN SAMOA AND PUERTO RICO	-	-	(1)
TOTAL.			-	181,748,164

1/ INCLUDED WITH UNCLASSIFIED PRODUCTS. NOTE:--SOME OF THE PRODUCTS HAVE BEEN PROCESSED FROM RAW PRODUCTS IMPORTED FROM ANOTHER STATE OR A FOREIGN COUNTRY; THEREFORE, THEY CANNOT BE CORRELATED DIRECTLY WITH THE LANDINGS WITHIN THE STATE. CERTAIN ITEMS ARE SHOWN IN AN INTERMEDIATE AND ALSO A MORE ADVANCED STAGE OF PROCESSING.

HAWAII, AMERICAN SAMOA, AND PUERTO RICO

SUMMARY OF PROCESSED PRODUCTS, 1970

ITEM	THOUSAND DOLLARS
PACKAGED:	
FRESH	1,311
CANNED	178,709
CURED	401
INDUSTRIAL	1,327
TOTAL	181,748

VALUE OF PROCESSED PRODUCTS, BY STATES, 1970

STATE AND AREAS	THOUSAND DOLLARS
HAWAII AND AMERICAN SAMOA	63,056
PUERTO RICO	118,692
TOTAL	181,748

PROCESSING AND WHOLESALING ESTABLISHMENTS AND EMPLOYMENT, 1970

STATE AND AREAS	PROCESSING			WHOLESALING			TOTAL		
	PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE		PLANTS	EMPLOYMENT AVERAGE	
		SEASON	YEAR		SEASON	YEAR		SEASON	YEAR
	NUMBER								
HAWAII AND AMERICAN SAMOA	28	1,742	1,418	11	28	28	39	1,770	1,446
PUERTO RICO	4	2,351	1,871	-	-	-	4	2,351	1,871
TOTAL	32	4,093	3,289	11	28	28	43	4,121	3,317

SEE NOTE ON PAGE 46, GENERAL REVIEW SECTION.

SECTION II - PUERTO RICO FISHERIES

Landings in Puerto Rico are not included in the U.S. landings table in the General Review or Review of Certain Major Fisheries sections.

Puerto Rico landings of 83.6 million pounds worth $15.4 million to the fishermen declined 16.2 million pounds and $520,000 compared with 1969. Landings were the smallest since 1966.

A sharp decrease in landings of skipjack and yellowfin tuna was the principal cause of the decline. Compared with 1969, landings of skipjack tuna (23.9 million pounds) declined 15 percent and yellowfin tuna (53.8 million) declined 21 percent. However, there was a small production of bluefin tuna (1.0 million pounds) for the first time since 1967. Total tuna landings of 78.8 million pounds worth $13.7 million were 94 percent of the volume and 89 percent of the value of the Puerto Rico landings.

Landings made by local fishermen, consisting largely of marine fish and shellfish, were 4.8 million pounds--an increase of 38 percent compared with 1969. Fishermen used various gear--principally gill nets, haul seines, hooks (troll, hand, and long or set lines), cast nets, fish pots, and weirs.

PUERTO RICO LANDINGS, 1953-70

YEAR	TUNA							
	BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1953	(1)	(1)	(1)	(1)	(1)	(1)	2,704	(1)
1954	(1)	(1)	(1)	(1)	(1)	(1)	6,388	(1)
1955	(1)	(1)	(1)	(1)	(1)	(1)	9,549	(1)
1956	(1)	(1)	(1)	(1)	(1)	(1)	12,000	(1)
1957	(1)	(1)	(1)	(1)	(1)	(1)	18,393	(1)
1958	(1)	(1)	(1)	(1)	(1)	(1)	16,652	(1)
1959	(1)	(1)	(1)	(1)	(1)	(1)	22,090	(1)
1960	-	(1)	5,692	(1)	15,218	(1)	20,910	(1)
1961	-	(1)	10,392	(1)	20,658	(1)	31,050	(1)
1962	1,676	(1)	20,086	(1)	7,028	(1)	28,790	(1)
1963 3/	2,494	254	30,454	2,966	4,078	500	37,026	3,720
1964	4,324	476	30,447	2,816	13,622	1,669	48,393	4,961
1965	2,346	287	42,064	4,417	10,166	1,398	54,576	6,102
1966	1,286	176	37,962	4,881	25,450	4,337	64,698	9,394
1967	1,360	150	77,702	7,343	18,820	2,456	97,882	9,949
1968	-	-	46,672	6,096	60,988	9,526	107,660	15,622
1969	-	-	28,014	3,847	68,254	11,041	96,268	14,888
1970	1,004	177	23,948	3,835	53,802	9,719	78,754	13,731

YEAR	OTHER							
	FRESH-WATER FISH		UNCLASSIFIED FISH		CRUSTACEANS		MOLLUSKS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1953	441	(1)	4,409	(1)	441	(1)	(2)	(1)
1954	441	(1)	4,630	(1)	441	(1)	(2)	(1)
1955	441	(1)	4,630	(1)	661	(1)	(2)	(1)
1956	441	(1)	4,850	(1)	661	(1)	(2)	(1)
1957	441	(1)	4,850	(1)	661	(1)	(2)	(1)
1958	441	(1)	5,071	(1)	661	(1)	(2)	(1)
1959	441	(1)	5,291	(1)	661	(1)	(2)	(1)
1960	441	(1)	5,512	(1)	661	(1)	(2)	(1)
1961	441	(1)	5,952	(1)	661	(1)	(2)	(1)
1962	441	(1)	6,614	(1)	661	(1)	(2)	[illegible]
1963 3/	441	88	7,496	1,357	1,102	431	(2)	(1)
1964	441	97	8,378	1,843	1,102	551	(2)	(1)
1965	441	110	9,039	2,079	1,323	727	(2)	(1)
1966	441	110	9,039	2,079	1,323	760	(2)	(1)
1967	441	132	8,598	1,934	1,984	1,300	(2)	(1)
1968	441	132	8,598	1,771	1,764	1,330	220	98
1969	441	132	2,866	654	220	229	(2)	25
970	441	132	3,748	1,069	441	400	220	72

SEE FOOTNOTES AT END OF TABLE.

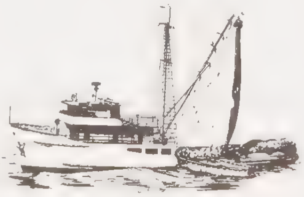
(CONTINUED ON NEXT PAGE)

PUERTO RICO LANDINGS, 1953-70 - Continued

YEAR	OTHER - CONTINUED				GRAND TOTAL	
	MISCELLANEOUS SHELLFISH ET AL.		TOTAL			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
1953	(2)	(1)	5,291	(1)	7,995	(1)
1954	(2)	(1)	5,512	(1)	11,900	(1)
1955	(2)	(1)	5,732	(1)	15,281	(1)
1956	(2)	(1)	5,952	(1)	17,952	(1)
1957	(2)	(1)	5,952	(1)	24,345	(1)
1958	(2)	(1)	6,173	(1)	22,825	(1)
1959	(2)	(1)	6,393	(1)	28,483	(1)
1960	220	(1)	6,834	(1)	27,744	(1)
1961	220	(1)	7,274	(1)	38,324	(1)
1962	(2)	(1)	7,716	(1)	36,506	(1)
1963 3/	220	66	9,259	1,942	46,285	5,662
1964	220	66	10,141	2,557	58,534	7,518
1965	220	77	11,023	2,993	65,599	9,095
1966	220	77	11,023	3,026	75,721	12,420
1967	220	80	11,243	3,446	109,125	13,395
1968	220	73	11,243	3,404	118,903	19,026
1969	(2)	11	3,527	1,051	99,795	15,939
1970	(2)	15	4,850	1,688	83,604	15,419

1/ NOT AVAILABLE.
2/ NEGLIGIBLE.
3/ ADDITIONAL LANDINGS OF BLUEFIN (640,000 POUNDS) AND SKIPJACK(596,000 POUNDS) TUNA WERE MADE AT U.S. ATLANTIC COAST PORTS AND TRANSHIPPED TO PUERTO RICO.

NOTE:--DATA ON PUERTO RICO LANDINGS MADE BY LOCAL FISHERMEN ARE FROM THE *YEARBOOK OF FISHERY STATISTICS* (VARIOUS YEARS), FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS. METRIC TONS HAVE BEEN CONVERTED TO POUNDS BY MULTIPLYING BY 2,204.6. DATA ON TUNA LANDINGS IN PUERTO RICO BY U.S. FISHERMEN WERE OBTAINED BY THE NATIONAL MARINE FISHERIES SERVICE.



PUERTO RICO TUNA LANDINGS
ATLANTIC AND PACIFIC OCEANS, 1953-70

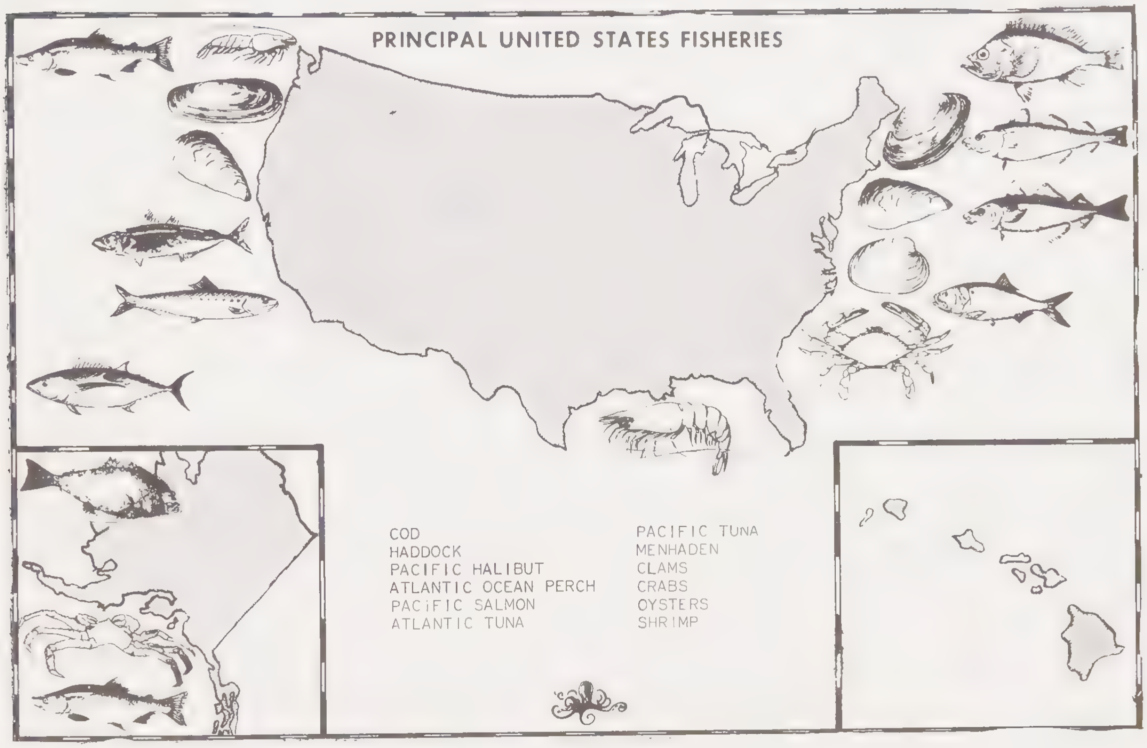
YEAR	BLUEFIN		SKIPJACK		YELLOWFIN		TOTAL		GRAND TOTAL
	ATLANTIC	PACIFIC	ATLANTIC	PACIFIC	ATLANTIC	PACIFIC	ATLANT.C	PACIFIC	
	THOUSAND POUNDS								
1953	-	(1)	-	(1)	-	(1)	-	2,704	2,704
1954	-	(1)	-	(1)	-	(1)	-	6,388	6,388
1955	-	(1)	-	(1)	-	(1)	-	9,549	9,549
1956	-	(1)	-	(1)	-	(1)	-	12,000	12,000
1957	-	(1)	-	(1)	-	(1)	-	18,393	18,393
1958	-	(1)	-	(1)	-	(1)	-	16,652	16,652
1959	-	(1)	-	(1)	-	(1)	-	22,090	22,090
1960	-	-	-	5,692	-	15,218	-	20,910	20,910
1961	-	-	-	10,392	-	20,658	-	31,050	31,050
1962	1,676	-	936	19,150	-	7,028	2,612	26,178	28,790
1963 2/	2,494	-	2,326	28,128	-	4,078	4,820	32,206	37,026
1964	4,324	-	6,506	23,939	-	13,622	10,830	37,561	48,391
1965	2,346	-	128	41,936	-	10,166	2,474	52,102	54,576
1966	248	1,038	-	37,962	-	25,450	248	64,450	64,698
1967	838	522	914	76,788	1,620	17,200	3,372	94,510	97,882
1968	-	-	6,844	39,828	13,454	47,534	20,298	87,362	107,660
1969	-	-	8,270	19,744	24,670	43,584	32,940	63,328	96,268
1970	1,004	-	19,984	3,964	14,792	39,010	35,780	42,974	78,754

1/ NOT AVAILABLE.
2/ ADDITIONAL LANDINGS OF BLUEFIN (640,000 POUNDS) AND SKIPJACK (596,000 POUNDS) TUNA WERE MADE AT U.S. ATLANTIC COAST PORTS AND TRANSHIPPED TO PUERTO RICO.

SECTION 12

REVIEW OF CERTAIN MAJOR FISHERIES

In this Section, there are complete data on the commercial landings of certain major species of fish and shellfish taken in the U.S. fisheries. Additional information is presented on the operating units for many of these fisheries. Most of the major species are taken by several types of fishing gear operated in two or more States; because of this, the casual reader of the digest may have difficulty in locating complete data. The information contained in this Section includes operating units and the volume and value of the catch by types of gear, by States, or by districts.


PRINCIPAL UNITED STATES FISHERIES
COD
HADDOCK
PACIFIC HALIBUT
ATLANTIC OCEAN PERCH
PACIFIC SALMON
ATLANTIC TUNA
PACIFIC TUNA
MENHADEN
CLAMS
CRABS
OYSTERS
SHRIMP

REVIEW OF CERTAIN MAJOR FISHERIES

U.S. COD FISHERY

U.S. fishermen landed 56.2 million pounds of cod worth $5.9 million--a decline of 9 percent in volume but an increase of 17 percent in value compared with 1969.

Otter trawls took 84 percent of the landings; lines, 11 percent; and gill nets, almost 5 percent. Less than 1 percent was taken in purse seines, pound nets, floating traps, and dredges.

Landings at Massachusetts ports (43.8 million pounds) were 78 percent of the total. Maine was next with 5.4 million pounds, followed by Rhode Island, 3.0 million; and Washington, 2.7 million pounds. Eight other Atlantic and Pacific Coast States accounted for the remaining 1.1 million pounds.

SUMMARY OF COD LANDINGS, 1970

AREA AND STATE	PURSE SEINES		OTTER TRAWLS		POUND NETS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	-	-	3,982	275	-	-
NEW HAMPSHIRE	-	-	42	5	-	-
MASSACHUSETTS	(1)	(1)	36,795	4,215	17	2
RHODE ISLAND	-	-	2,913	316	-	-
CONNECTICUT	-	-	238	26	-	-
TOTAL	(1)	(1)	43,970	4,837	17	2
MIDDLE ATLANTIC:						
NEW YORK	-	-	240	36	(1)	(1)
NEW JERSEY	-	-	40	7	-	-
TOTAL	-	-	280	43	(1)	(1)
CHESAPEAKE:						
MARYLAND	-	-	6	1	-	-
VIRGINIA	-	-	1	(1)	-	-
TOTAL	-	-	7	1	-	-
PACIFIC:						
ALASKA	-	-	63	7	-	-
WASHINGTON	-	-	2,704	175	-	-
OREGON	-	-	76	5	-	-
TOTAL	-	-	2,843	187	-	-
GRAND TOTAL	(1)	(1)	47,100	5,068	17	2

(CONTINUED ON NEXT PAGE)

SUMMARY OF COD LANDINGS, 1970 - Continued

AREA AND STATE	FLOATING TRAPS		POTS AND TRAPS		GILL NETS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	-	-	-	-	894	56
NEW HAMPSHIRE	-	-	-	-	120	13
MASSACHUSETTS	7	1	-	-	1,551	170
RHODE ISLAND	61	8	-	-	-	-
TOTAL	68	9	-	-	2,565	239
MIDDLE ATLANTIC, NEW JERSEY, TOTAL	-	-	(1)	(1)	-	-
GRAND TOTAL	68	9	(1)	(1)	2,565	239

AREA AND STATE	LINES					
	HAND		TROLL		LONG OR SET WITH HOOKS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	367	16	-	-	184	10
NEW HAMPSHIRE	12	2	-	-	15	2
MASSACHUSETTS	932	91	-	-	4,458	433
RHODE ISLAND	37	5	-	-	20	2
CONNECTICUT	5	1	-	-	-	-
TOTAL	1,353	115	-	-	4,677	447
MIDDLE ATLANTIC:						
NEW YORK	56	8	-	-	82	12
NEW JERSEY	(1)	(1)	-	-	148	29
DELAWARE	-	-	-	-	1	(1)
TOTAL	56	8	-	-	231	41
PACIFIC:						
ALASKA	-	-	1	1	139	12
WASHINGTON	(1)	(1)	-	-	1	(1)
TOTAL	(1)	(1)	1	1	140	12
GRAND TOTAL	1,409	123	1	1	5,048	500

AREA AND STATE	DREDGES		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:				
MAINE	-	-	5,427	357
NEW HAMPSHIRE	-	-	189	22
MASSACHUSETTS	1	(1)	43,761	4,912
RHODE ISLAND	(1)	(1)	3,031	331
CONNECTICUT	-	-	243	27
TOTAL	1	(1)	52,651	5,649
MIDDLE ATLANTIC:				
NEW YORK	-	-	378	56
NEW JERSEY	-	-	188	36
DELAWARE	-	-	1	(1)
TOTAL	-	-	567	92
CHESAPEAKE:				
MARYLAND	-	-	6	1
VIRGINIA	-	-	1	(1)
TOTAL	-	-	7	1
PACIFIC:				
ALASKA	-	-	203	20
WASHINGTON	-	-	2,705	175
OREGON	-	-	76	5
TOTAL	-	-	2,984	200
GRAND TOTAL	1	(1)	56,209	5,942

1/ LESS THAN 500 POUNDS OR $500.

REVIEW OF CERTAIN MAJOR FISHERIES

ATLANTIC COAST HADDOCK FISHERY

Haddock landings were 26.9 million pounds worth $6.0 million--a decline of 18.9 million pounds and $1.7 million compared with 1969. The harvest was the smallest on record, and far below the record 293.8 million pounds taken in 1929. Landings have declined steadily since 1967.

The haddock production of 25.3 million pounds at Massachusetts ports (comprising 94 percent of the total volume) was 19.1 million pounds (43 percent) less than in 1969. Otter trawls accounted for 94 percent of the landings. The rest was taken by lines, gill nets, and dredges.

SUMMARY OF HADDOCK LANDINGS, 1970

AREA AND STATE	OTTER TRAWLS		GILL NETS		LINES	
					HAND	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	924	168	34	6	4	(1)
NEW HAMPSHIRE	3	1	2	(1)	-	-
MASSACHUSETTS	23,784	5,381	133	28	3	1
RHODE ISLAND.	553	113	-	-	-	-
TOTAL	25,264	5,663	169	34	7	1
MIDDLE ATLANTIC:						
NEW YORK.	7	1	-	-	-	-
NEW JERSEY.	1	(1)	-	-	-	-
TOTAL	8	1	-	-	-	-
GRAND TOTAL	25,272	5,664	169	34	7	1

AREA AND STATE	LINES - CONTINUED		DREDGES		TOTAL	
	LONG OR SET WITH HOOKS					
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	51	10	-	-	1,013	184
NEW HAMPSHIRE	2	1	-	-	7	2
MASSACHUSETTS	1,387	335	1	(1)	25,308	5,745
RHODE ISLAND.	-	-	-	-	553	113
TOTAL	1,440	346	1	(1)	26,881	6,044
MIDDLE ATLANTIC:						
NEW YORK.	-	-	-	-	7	1
NEW JERSEY.	-	-	-	-	1	(1)
TOTAL	-	-	-	-	8	1
GRAND TOTAL	1,440	346	1	(1)	26,889	6,045

1/ LESS THAN $500.

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC COAST HALIBUT FISHERY, 1970

Halibut landings by the combined United States and Canadian fleets were 54.9 million pounds (dressed weight)--a decline of 3.6 million compared with 1969. U.S. fishermen landed 25.8 million pounds (47 percent of the total) and received $9.2 million--817,000 pounds and $254,000 more than in 1969. In 1970, the U.S. fleet operating out of Pacific coast ports numbered 209 vessels; in 1969, the fleet had 183 vessels. Canadian fishermen landed 29.1 million pounds--4.4 million less than in 1969.

The halibut quotas set by the International Pacific Halibut Commission declined in three major areas. Compared with 1969, the quota for Areas 2 and 3A was 1 million pounds less, and for Area 3B, it was 500,000 pounds less. The smaller quotas set in 1970 were: Area 2, 20 million pounds; Area 3A, 30 million; and Area 3B, 3 million pounds. In Areas 2 and 3A the season opened on April 25, 12 days earlier than in 1969. The quota was reached in both areas by September 21, 3 weeks before the mandatory closing date of October 15. Area 3B opened April 1 and closed April 6, but reopened April 25 and closed September 30. Areas 3C, 4C, and 4D opened March 17. Area 4C closed April 11, but Areas 3C and 4D remained open until November 15. Areas 4A and 4B opened March 22 and closed April 4. Area 4B, however, reopened from September 1 through September 14.

Data on the landings of halibut in the following tables represent the dressed weight of the fish, i.e., the weight by which the quota is determined. The dressed weight of halibut can be converted to round weight by multiplying by 1.33. Halibut landed in Canada by vessels of United States registry are credited to Alaska.

SUMMARY OF U.S. HALIBUT FLEET OPERATING UNITS, 1970

ITEM	WASHINGTON AND OREGON FLEET	ALASKA FLEET	TOTAL, EXCLUSIVE OF DUPLICATION
		NUMBER	
REGULAR HALIBUT VESSELS:			
NUMBER.	57	187	209
GROSS TONNAGE	2,954	6,344	6,878
CREW.	330	747	819
SKATES OF LINES	2,718	6,043	6,589
REGULAR HALIBUT BOATS:			
NUMBER.	2	24	26
CREW.	8	38	46
SKATES OF LINES	16	189	205
BOATS PRIMARILY IN OTHER FISHERIES BUT LANDING SMALL FARES OF HALIBUT 1/:			
NUMBER.	21	306	310
CREW.	36	541	548
SKATES OF LINES	44	673	681

1/ DOES NOT INCLUDE TROLLERS OR OTHER BOATS CATCHING HALIBUT INCIDENTAL TO OTHER FISHING OPERATIONS.
NOTE:--UNITED STATES VESSELS LANDING HALIBUT AT PRINCE RUPERT, BRITISH COLUMBIA, HAVE BEEN INCLUDED WITH THOSE LANDING IN ALASKA.

LANDINGS BY U.S. HALIBUT FLEET, 1970

SPECIES	LANDED IN						TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA		ALASKA			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HALIBUT	4,493	1,763	1,770	676	19,520	6,752	25,783	9,191
SABLEFISH	229	46	-	-	814	152	1,043	198
LINGCOD	29	3	-	-	29	3	58	6
ROCKFISH.	85	7	-	-	15	1	100	8
TOTAL	4,836	1,819	1,770	676	20,378	6,908	26,984	9,403

NOTE:--IN ADDITION THERE WERE APPROXIMATELY 40,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS". THE QUANTITIES SHOWN ABOVE REPRESENT DRESSED WEIGHT OF FISH. TO CONVERT TO ROUND WEIGHT, MULTIPLY THE WEIGHT OF HALIBUT BY 1.33 AND OTHER SPECIES BY 1.43.

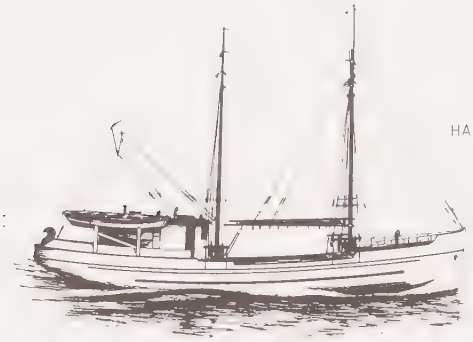
REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF UNITED STATES AND CANADIAN HALIBUT LANDINGS, 1970

FLEET CLASSIFICATION	LANDED IN						TOTAL	
	WASHINGTON AND OREGON		BRITISH COLUMBIA		ALASKA			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
UNITED STATES FLEET 1/. . .	4,493	1,763	1,770	676	19,520	6,752	25,783	9,191
BRITISH COLUMBIA FLEET. . .	2,874	1,131	19,715	7,215	6,566	2,242	29,155	10,588
TOTAL	7,367	2,894	21,485	7,891	26,086	8,994	54,938	19,779

1/ IN ADDITION THERE WERE APPROXIMATELY 40,000 POUNDS OF "NORTHERN" HALIBUT LANDED IN CALIFORNIA. MOST OF THIS CATCH WAS INCLUDED UNDER "CALIFORNIA HALIBUT" AND "UNCLASSIFIED FLOUNDERS".

NOTE:--HALIBUT STATISTICS IN THESE TABLES WERE COMPILED FROM DATA COLLECTED BY THE INTERNATIONAL PACIFIC HALIBUT COMMISSION. STATISTICS FOR OTHER SPECIES WERE FURNISHED BY THE STATES.



HALIBUT SCHOONER

ATLANTIC OCEAN PERCH FISHERY, 1970

Landings of Atlantic ocean perch declined for the tenth consecutive year. The harvest of 55.3 million pounds was 528,000 pounds less than in 1969, and 203.0 million pounds less than the record production of 1951. However, the value of $2.7 million increased $358,000 compared with 1969.

Maine landings of 46.7 million pounds worth $2.3 million were 84 percent of the volume and 83 percent of the value. Massachusetts accounted for the rest, except for small landings in New Hampshire and Rhode Island. Maine and Massachusetts otter trawlers accounted for most of the production, with only small amounts taken by handlines and longlines.

Most of the catches were made in waters off New England and in the Gulf of St. Lawrence. Some catches were also taken off Nova Scotia.

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC COAST SALMON FISHERY, 1970

Landings of 410.1 million pounds worth a record $98.7 million were 142.3 million pounds (53 percent) and $35.8 million (57 percent) more than in 1969. The harvest was the largest since 1949. A sharp increase in red salmon landings in Alaska and near-record silver salmon landings in Washington and Oregon were the principal reasons for the greater production.

Landings increased in all States. Alaska landings were 346.5 million pounds worth $68.0 million--a gain of 127.3 million pounds and $25.5 million compared with 1969. Alaska accounted for 84 percent of the total salmon landings and 69 percent of the total value. Red salmon landings in Alaska were 150.8 million pounds--79.1 million more than in 1969, and the best harvest since 1938. Compared with 1969, salmon landings in Washington (37.6 million pounds) increased 18 percent, and in Oregon (19.4 million) 84 percent. Sharply increased silver salmon landings in both States were the principal reason for the gain. California landings of chinook and silver salmon were 6.6 million pounds worth $5.1 million--a gain of 7 percent in volume and 33 percent in value compared with 1969.

Gill nets accounted for 204.6 million pounds (50 percent); purse seines, 171.7 million (42 percent); and lines, 32.4 million pounds (nearly 8 percent). Less than 1 percent was taken with reef nets, floating traps, dip nets, haul seines, pound nets, wheels, and otter trawls.

SUMMARY OF PACIFIC COAST SALMON PURSE SEINE OPERATING UNITS, 1970

	ALASKA 1/	WASHINGTON	TOTAL, EXCLUSIVE OF DUPLICATION
		NUMBER	
FISHERMEN:			
ON VESSELS.	5,886	1,701	6,497
ON BOATS AND SHORE. . . .	730	-	730
TOTAL	6,616	1,701	7,227
VESSELS, MOTOR:			
5 - 9 TONS.	109	1	110
10 - 19 TONS.	368	16	380
20 - 29 TONS.	167	49	187
30 - 39 TONS.	133	81	161
40 - 49 TONS.	111	89	147
50 - 59 TONS.	43	27	55
60 - 69 TONS.	6	4	8
70 - 79 TONS.	3	-	3
80 - 89 TONS.	4	2	4
110 - 119 TONS.	1	-	1
120 - 129 TONS.	1	-	1
140 - 149 TONS.	1	-	1
190 - 199 TONS.	2	-	2
480 - 489 TONS.	1	-	1
TOTAL VESSELS	950	269	1,061
TOTAL GROSS TONNAGE .	23,972	10,052	27,996
BOATS, MOTOR.	1,315	269	1,426
GEAR:			
NUMBER.	1,340	269	1,499
LENGTH, YARDS	508,712	144,855	594,767

1/ INCLUDES SOME HAUL SEINES.

NOTE:--PURSE SEINE OPERATING UNITS WERE CONFINED TO ALASKA AND WASHINGTON.

SUMMARY OF PACIFIC COAST SALMON GILL NET OPERATING UNITS, 1970

ITEM	ANCHOR, SET, OR STAKE			
	ALASKA	WASHINGTON	OREGON	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	74	-	-	74
ON BOATS AND SHORE	2,325	425	75	2,825
TOTAL	2,399	425	75	2,899
VESSELS, MOTOR:				
5 - 9 TONS	9	-	-	9
10 - 19 TONS	14	-	-	14
20 - 29 TONS	2	-	-	2
30 - 39 TONS	2	-	-	2
40 - 49 TONS	2	-	-	2
70 - 79 TONS	1	-	-	1
80 - 89 TONS	1	-	-	1
110 - 119 TONS	1	-	-	1
120 - 129 TONS	1	-	-	1
140 - 149 TONS	1	-	-	1
160 - 169 TONS	1	-	-	1
290 - 299 TONS	1	-	-	1
320 - 329 TONS	1	-	-	1
TOTAL VESSELS	37	-	-	37
TOTAL GROSS TONNAGE	1,783	-	-	1,783
BOATS:				
MOTOR	2,325	315	60	2,700
OTHER	-	50	5	55
GEAR:				
NUMBER	2,362	365	65	2,792
SQUARE YARDS	1,532,466	115,000	26,000	1,673,466

ITEM	DRIFT			
	ALASKA	WASHINGTON	OREGON	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER			
FISHERMEN:				
ON VESSELS	1,550	446	-	1,781
ON BOATS AND SHORE	3,578	1,271	490	5,339
TOTAL	5,128	1,717	490	7,120
VESSELS, MOTOR:				
5 - 9 TONS	306	144	-	391
10 - 19 TONS	389	180	-	499
20 - 29 TONS	37	13	-	36
30 - 39 TONS	14	5	-	17
40 - 49 TONS	8	2	-	10
50 - 59 TONS	3	-	-	3
60 - 69 TONS	1	-	-	1
80 - 89 TONS	3	-	-	3
110 - 119 TONS	1	-	-	1
140 - 149 TONS	1	-	-	1
160 - 169 TONS	1	-	-	1
180 - 189 TONS	1	-	-	1
190 - 199 TONS	4	-	-	4
270 - 279 TONS	1	-	-	1
290 - 299 TONS	1	-	-	1
320 - 329 TONS	1	-	-	1
330 - 339 TONS	1	-	-	1
530 - 539 TONS	1	-	-	1
970 - 979 TONS	1	-	-	1
TOTAL VESSELS	775	344	-	974
TOTAL GROSS TONNAGE	13,585	3,949	-	15,619
BOATS:				
MOTOR	3,578	1,157	447	5,182
OTHER	-	10	-	10
GEAR:				
NUMBER	4,353	1,511	447	6,166
SQUARE YARDS	4,222,410	7,560,000	1,365,000	13,125,953

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF PACIFIC COAST SALMON TROLL LINE OPERATING UNITS, 1970

ITEM	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
			NUMBER		
FISHERMEN:					
ON VESSELS	1,486	1,070	1,347	1,700	4,698
ON BOATS AND SHORE	2,756	2,040	1,085	1,988	7,841
TOTAL	4,242	3,110	2,432	3,688	12,539
VESSELS, MOTOR:					
5 - 9 TONS	169	154	117	161	537
10 - 19 TONS	361	344	363	478	1,295
20 - 29 TONS	118	89	144	134	383
30 - 39 TONS	45	40	66	46	146
40 - 49 TONS	26	13	15	20	61
50 - 59 TONS	5	1	11	6	21
60 - 69 TONS	4	2	2	1	9
70 - 79 TONS	2	-	2	1	3
80 - 89 TONS	-	-	1	1	3
90 - 99 TONS	-	-	-	1	1
100 - 109 TONS	-	-	-	1	1
130 - 139 TONS	-	-	1	-	1
140 - 149 TONS	-	-	1	-	1
160 - 169 TONS	1	-	-	-	
TOTAL VESSELS	731	643	723	850	2,463
TOTAL GROSS TONNAGE	12,580	10,117	13,548	14,019	41,324
BOATS, MOTOR	1,378	1,699	974	994	5,007
GEAR:					
NUMBER	8,484	9,464	7,576	9,220	32,096
HOOKS	50,520	39,153	33,306	46,100	155,545

SALMON LANDINGS BY DISTRICT AND CATCH BY GEAR, 1970

GEAR AND SPECIES	ALASKA			
	SOUTHEASTERN		CENTRAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
PURSE SEINES:				
CHINOOK OR KING	80	15	65	17
CHUM OR KETA	15,543	2,154	16,833	1,900
PINK	36,883	4,820	64,984	8,741
RED OR SOCKEYE	1,924	558	19,781	5,143
SILVER OR COHO	2,172	456	926	211
TOTAL	56,602	8,003	102,589	16,012
FLOATING TRAPS:				
CHUM OR KETA	14	2	-	-
PINK	463	65	-	-
RED OR SOCKEYE	18	5	-	-
SILVER OR COHO	15	5	-	-
TOTAL	510	77	-	-
GILL NETS, ANCHOR, SET, OR STAKE:				
CHINOOK OR KING	44	35	215	72
CHUM OR KETA	98	14	1,101	121
PINK	35	5	5,123	666
RED OR SOCKEYE	705	240	3,084	821
SILVER OR COHO	291	105	1,187	309
TOTAL	1,173	399	10,710	1,989
GILL NETS, DRIFT:				
CHINOOK OR KING	112	89	619	202
CHUM OR KETA	4,806	673	6,767	744
PINK	3,810	533	1,746	227
RED OR SOCKEYE	1,598	529	14,584	3,792
SILVER OR COHO	1,447	521	3,057	793
TOTAL	11,773	2,345	26,773	5,758
LINES, LONG OR SET WITH HOOKS:				
CHINOOK OR KING	1	1	-	-
SILVER OR COHO	(1)	(1)	-	-
TOTAL	1	1	-	-
LINES, TROLL:				
CHINOOK OR KING	4,351	3,468	13	9
CHUM OR KETA	22	5	-	-
PINK	251	5	(1)	(1)
RED OR SOCKEYE	4	2	1	(1)
SILVER OR COHO	1,899	979	12	6
TOTAL	6,527	4,459	26	15
GRAND TOTAL	76,586	15,284	140,098	23,774

GEAR AND SPECIES	ALASKA - CONTINUED			
	WESTERN		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
PURSE SEINES:				
CHINOOK OR KING	(1)	(1)	145	32
CHUM OR KETA	88	8	32,464	4,062
PINK	2,706	325	104,573	13,886
RED OR SOCKEYE	43	9	21,748	5,710
SILVER OR COHO	13	2	3,111	669
TOTAL	2,850	344	162,041	24,359
FLOATING TRAPS:				
CHUM OR KETA	-	-	14	2
PINK	-	-	463	65
RED OR SOCKEYE	-	-	18	5
SILVER OR COHO	-	-	15	5
TOTAL	-	-	510	77
GILL NETS, ANCHOR, SET, OR STAKE:				
CHINOOK OR KING	1,521	283	1,780	390
CHUM OR KETA	4,180	452	5,379	587
PINK	453	51	5,611	722
RED OR SOCKEYE	7,390	1,766	11,179	2,827
SILVER OR COHO	348	50	1,826	464
TOTAL	13,892	2,602	25,775	4,990

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SALMON LANDINGS BY DISTRICT AND CATCH BY GEAR, 1970 - Continued

GEAR AND SPECIES	ALASKA - CONTINUED			
	WESTERN		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
GILL NETS, DRIFT:				
CHINOOK OR KING	4,521	843	5,252	1,134
CHUM OR KETA	5,033	543	16,606	1,960
PINK	1,264	125	6,820	885
RED OR SOCKEYE	101,680	24,383	117,862	28,704
SILVER OR COHO	529	75	5,033	1,389
TOTAL	113,027	25,969	151,573	34,072
LINES, LONG OR SET WITH HOOKS:				
CHINOOK OR KING	-	-	1	1
SILVER OR COHO	-	-	(1)	(1)
TOTAL	-	-	1	1
LINES, TROLL:				
CHINOOK OR KING	-	-	4,364	3,477
CHUM OR KETA	-	-	22	5
PINK	-	-	251	5
RED OR SOCKEYE	-	-	5	2
SILVER OR COHO	-	-	1,911	985
TOTAL	-	-	6,553	4,474
WHEELS:				
CHINOOK OR KING	5	1	5	1
CHUM OR KETA	5	1	5	1
SILVER OR COHO	2	(1)	2	(1)
TOTAL	12	2	12	[illegible]
GRAND TOTAL	129,781	28,917	346,465	67,975

GEAR AND SPECIES	WASHINGTON			
	PUGET SOUND		WASHINGTON COAST	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES:				
CHINOOK OR KING	43	[illegible]	-	-
CHUM OR KETA	[illegible]	4	-	-
SILVER OR COHO	[illegible]	[illegible]	-	-
TOTAL	[illegible]	[illegible]	-	-
PURSE SEINES:				
CHINOOK OR KING	[illegible]	[illegible]	-	-
CHUM OR KETA	[illegible]	[illegible]	-	-
PINK	4	(1)	-	-
RED OR SOCKEYE	[illegible]	[illegible]	-	-
SILVER OR COHO	[illegible]	[illegible]	-	-
TOTAL	[illegible]	[illegible]	-	-
POUND NETS:				
CHINOOK OR KING	[illegible]	11	-	-
CHUM OR KETA	[illegible]	1	-	-
RED OR SOCKEYE	(1)	(1)	-	-
SILVER OR COHO	53	21	-	-
TOTAL	[illegible]	33	-	-
GILL NETS, ANCHOR, SET, OR STAKE:				
CHINOOK OR KING	519	[illegible]	[illegible]	[illegible]
CHUM OR KETA	[illegible]	[illegible]	13	[illegible]
PINK	(1)	(1)	(1)	(1)
RED OR SOCKEYE	31	13	[illegible]	14
SILVER OR COHO	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SALMON LANDINGS BY DISTRICT AND CATCH BY GEAR, 1970 - Continued

GEAR AND SPECIES	WASHINGTON - CONTINUED			
	PUGET SOUND		WASHINGTON COAST	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
GILL NETS, DRIFT:				
CHINOOK OR KING	1,119	709	732	411
CHUM OR KETA	982	251	579	109
PINK	5	1	-	-
RED OR SOCKEYE	3,206	1,392	-	-
SILVER OR COHO	4,632	1,886	1,166	396
TOTAL	9,944	4,239	2,477	916
LINES, TROLL:				
CHINOOK OR KING	284	203	1,920	1,312
CHUM OR KETA	1	(1)	2	1
PINK	10	3	25	5
RED OR SOCKEYE	3	1	(1)	(1)
SILVER OR COHO	563	284	3,921	1,926
TOTAL	861	491	5,868	3,244
REEF NETS:				
CHINOOK OR KING	37	22	-	-
CHUM OR KETA	9	3	-	-
PINK	(1)	(1)	-	-
RED OR SOCKEYE	425	186	-	-
SILVER OR COHO	149	62	-	-
TOTAL	620	273	-	-
GRAND TOTAL	23,056	9,756	9,076	4,454

GEAR AND SPECIES	WASHINGTON - CONTINUED			
	COLUMBIA RIVER		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES:				
CHINOOK OR KING	-	-	43	27
CHUM OR KETA	-	-	22	4
SILVER OR COHO	-	-	12	5
TOTAL	-	-	77	36
PURSE SEINES:				
CHINOOK OR KING	-	-	1,024	582
CHUM OR KETA	-	-	929	242
PINK	-	-	4	(1)
RED OR SOCKEYE	-	-	5,007	2,193
SILVER OR COHO	-	-	2,687	1,088
TOTAL	-	-	9,651	4,105
POUND NETS:				
CHINOOK OR KING	-	-	18	11
CHUM OR KETA	-	-	5	1
RED OR SOCKEYE	-	-	(1)	(1)
SILVER OR COHO	-	-	53	21
TOTAL	-	-	76	33
GILL NETS, ANCHOR, SET OR STAKE:				
CHINOOK OR KING	698	218	1,585	627
CHUM OR KETA	-	-	370	64
PINK	-	-	(1)	(1)
RED OR SOCKEYE	10	4	67	31
SILVER OR COHO	94	27	1,334	400
TOTAL	802	249	3,356	1,122
GILL NETS, DRIFT:				
CHINOOK OR KING	1,407	684	3,258	1,804
CHUM OR KETA	3	1	1,564	361
PINK	-	-	5	1
RED OR SOCKEYE	6	3	3,212	1,395
SILVER OR COHO	1,234	403	7,032	2,685
TOTAL	2,650	1,091	15,071	6,246

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SALMON LANDINGS BY DISTRICT AND CATCH BY GEAR, 1970 - Continued

GEAR AND SPECIES	WASHINGTON - CONTINUED			
	COLUMBIA RIVER		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
LINES, TROLL:				
CHINOOK OR KING	346	220	2,550	1,735
CHUM OR KETA.	-	-	3	1
PINK.	-	-	35	8
RED OR SOCKEYE.	-	-	3	1
SILVER OR COHO.	1,590	822	6,074	3,032
TOTAL	1,936	1,042	8,665	4,777
DIP NETS:				
CHINOOK OR KING	43	16	43	16
SILVER OR COHO.	42	12	42	12
TOTAL	85	28	85	28
REEF NETS:				
CHINOOK OR KING	-	-	37	22
CHUM OR KETA.	-	-	9	3
PINK.	-	-	(1)	(1)
RED OR SOCKEYE.	-	-	425	186
SILVER OR COHO.	-	-	149	62
TOTAL	-	-	620	273
GRAND TOTAL	5,473	2,410	37,601	16,620

GEAR AND SPECIES	OREGON					
	COLUMBIA RIVER		OREGON COAST		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
GILL NETS, ANCHOR, SET, OR STAKE:						
CHINOOK OR KING	259	104	-	-	259	104
RED OR SOCKEYE.	4	2	-	-	4	2
SILVER OR COHO.	44	12	-	-	44	12
TOTAL	307	118	-	-	307	118
GILL NETS, DRIFT:						
CHINOOK OR KING	4,107	1,807	-	-	4,107	1,807
CHUM OR KETA.	5	1	-	-	5	1
RED OR SOCKEYE.	36	15	-	-	36	15
SILVER OR COHO.	4,374	1,268	-	-	4,374	1,268
TOTAL	8,522	3,091	-	-	8,522	3,091
LINES, TROLL:						
CHINOOK OR KING	244	142	1,694	1,224	1,938	1,366
PINK.	(1)	(1)	-	-	(1)	(1)
SILVER OR COHO.	776	389	7,891	4,024	8,667	4,413
TOTAL	1,020	531	9,585	5,248	10,605	5,779
DIP NETS:						
CHINOOK OR KING	7	3	-	-	7	3
RED OR SOCKEYE.	(1)	(1)	-	-	(1)	(1)
SILVER OR COHO.	1	(1)	-	-	1	(1)
TOTAL	8	3	-	-	8	3
GRAND TOTAL	9,857	3,743	9,585	5,248	19,442	8,991

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SALMON LANDINGS BY DISTRICT AND CATCH BY GEAR, 1970 - Continued

GEAR AND SPECIES	CALIFORNIA					
	NORTHERN		SAN FRANCISCO		MONTEREY	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
OTTER TRAWLS:						
CHINOOK OR KING	3	3	-	-	-	-
SILVER OR COHO.	2	1	-	-	-	-
TOTAL	5	4	-	-	-	-
LINES:						
CHINOOK OR KING	2,797	2,314	1,745	1,460	523	463
SILVER OR COHO.	1,145	572	167	89	20	11
TOTAL	3,942	2,886	1,912	1,549	543	474
GRAND TOTAL	3,947	2,892	1,912	1,549	543	474

GEAR AND SPECIES	CALIFORNIA - CONTINUED			
	SANTA BARBARA		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
OTTER TRAWLS:				
CHINOOK OR KING	-	-	3	3
SILVER OR COHO.	-	-	2	1
TOTAL	-	-	5	4
LINES:				
CHINOOK OR KING	201	182	5,266	4,421
SILVER OR COHO.	8	4	1,340	676
TOTAL	209	186	6,606	5,097
GRAND TOTAL	209	186	6,611	5,101

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--IN ALASKA, LANDINGS TAKEN BY HAUL SEINES ARE INCLUDED WITH THOSE TAKEN BY PURSE SEINES.

SUMMARY OF SALMON LANDINGS BY DISTRICTS, 1970

SPECIES	ALASKA			
	SOUTHEASTERN		CENTRAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	4,589	3,609	912	299
CHUM OR KETA.	20,483	2,848	24,701	2,765
PINK.	41,442	5,428	71,853	9,634
RED OR SOCKEYE.	4,249	1,334	37,450	9,756
SILVER OR COHO.	5,823	2,065	5,182	1,320
TOTAL	76,586	15,284	140,098	23,774

SPECIES	ALASKA - CONTINUED			
	WESTERN		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	6,047	1,127	11,547	5,035
CHUM OR KETA.	9,306	1,003	54,490	6,616
PINK.	4,423	501	117,718	15,563
RED OR SOCKEYE.	109,113	26,159	150,812	37,249
SILVER OR COHO.	892	127	11,898	3,512
TOTAL	129,781	28,917	346,465	67,975

(CONTINUED ON NEXT PAGE)

SUMMARY OF SALMON LANDINGS BY DISTRICTS, 1970 - Continued

SPECIES	WASHINGTON			
	PUGET SOUND		WASHINGTON COAST	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	3,044	1,782	3,020	1,903
CHUM OR KETA.	2,305	564	593	112
PINK.	19	4	25	5
RED OR SOCKEYE.	8,672	3,785	27	14
SILVER OR COHO.	9,010	3,621	5,413	2,420
TOTAL	23,050	9,756	9,078	4,454

SPECIES	WASHINGTON - CONTINUED			
	COLUMBIA RIVER		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	2,494	1,138	8,558	4,823
CHUM OR KETA.	3	1	2,901	677
PINK.	-	-	44	9
RED OR SOCKEYE.	16	7	8,715	3,806
SILVER OR COHO.	2,960	1,264	17,383	7,305
TOTAL	5,473	2,410	37,601	16,620

SPECIES	OREGON					
	COLUMBIA RIVER		OREGON COAST		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	4,617	2,056	1,694	1,224	6,311	3,280
CHUM OR KETA.	5	1	-	-	5	1
PINK.	(1)	(1)	-	-	(1)	(1)
RED OR SOCKEYE.	41	16	-	-	41	16
SILVER OR COHO.	5,194	1,670	7,891	4,024	13,085	5,694
TOTAL	9,857	3,743	9,585	5,248	19,442	8,991

SPECIES	CALIFORNIA					
	NORTHERN		SAN FRANCISCO		MONTEREY	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	2,800	2,319	1,745	1,460	523	463
SILVER OR COHO.	1,147	573	167	89	20	11
TOTAL	3,947	2,892	1,912	1,549	543	474

SPECIES	CALIFORNIA - CONTINUED			
	SANTA BARBARA		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	201	182	5,269	4,424
SILVER OR COHO.	8	4	1,342	677
TOTAL	209	186	6,611	5,101

1/ LESS THAN $500.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF SALMON LANDINGS OF CATCH BY GEAR, 1970

STATE AND DISTRICT	HAUL SEINES	PURSE SEINES	OTTER TRAWLS	POUND NETS	FLOATING TRAPS	GILL NETS
	THOUSAND POUNDS					
ALASKA:						
SOUTHEASTERN	(1)	56,602	-	-	510	12,945
CENTRAL	(1)	102,589	-	-	-	37,483
WESTERN	(1)	2,850	-	-	-	126,919
TOTAL	(1)	162,041	-	-	510	177,347
WASHINGTON:						
PUGET SOUND	77	9,651	-	76	-	11,765
WASHINGTON COAST	-	-	-	-	-	3,210
COLUMBIA RIVER	-	-	-	-	-	3,452
TOTAL	77	9,651	-	76	-	18,427
OREGON, COLUMBIA RIVER, TOTAL	-	-	-	-	-	8,829
CALIFORNIA, NORTHERN, TOTAL	-	-	5	-	-	-
GRAND TOTAL	77	171,692	5	76	510	204,603

STATE AND DISTRICT	LINES	DIPS NETS	REEF NETS	WHEELS	TOTAL
	THOUSAND POUNDS				
ALASKA:					
SOUTHEASTERN	6,529	-	-	-	76,586
CENTRAL	26	-	-	-	140,098
WESTERN	-	-	-	12	129,781
TOTAL	6,555	-	-	12	346,465
WASHINGTON:					
PUGET SOUND	861	-	620	-	23,050
WASHINGTON COAST	5,868	-	-	-	9,078
COLUMBIA RIVER	1,936	85	-	-	5,473
TOTAL	8,665	85	620	-	37,601
OREGON:					
COLUMBIA RIVER	1,020	8	-	-	9,857
OREGON COAST	9,585	-	-	-	9,585
TOTAL	10,605	8	-	-	19,442
CALIFORNIA:					
NORTHERN	3,942	-	-	-	3,947
SAN FRANCISCO	1,912	-	-	-	1,912
MONTEREY	543	-	-	-	543
SANTA BARBARA	209	-	-	-	209
TOTAL	6,606	-	-	-	6,611
GRAND TOTAL	32,431	93	620	12	410,119

1/ INCLUDED WITH PURSE SEINES.

SUMMARY OF SALMON LANDINGS BY SPECIES, 1970

SPECIES	THOUSAND POUNDS	THOUSAND DOLLARS
CHINOOK OR KING	31,685	17,562
CHUM OR KETA	57,396	7,294
PINK	117,762	15,572
RED OR SOCKEYE	159,568	41,071
SILVER OR COHO	43,708	17,188
TOTAL	410,119	98,687

REVIEW OF CERTAIN MAJOR FISHERIES

ATLANTIC COAST TUNA FISHERY, 1970

Tuna landings along the Atlantic coast were 6.6 million pounds worth $948,000--an increase of 3.9 million pounds and $566,000 compared with 1969. A sharp increase in landings of bluefin tuna, principally in New Jersey, accounted largely for the gain. Bluefin tuna was 96 percent of the total harvest.

There were 33 fishermen using 3 purse seine vessels and 3 motor boats landing tuna at ports in the New England and Middle Atlantic States. Purse seines took 93 percent of the harvest, and harpoons, lines, and pound nets took 2 percent each. A small quantity was taken with otter trawls, floating traps, haul seines, and gill nets.

SUMMARY OF ATLANTIC COAST TUNA LANDINGS, 1970

SPECIES AND STATE	HAUL SEINES		PURSE SEINES		OTTER TRAWLS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BLUEFIN:						
MASSACHUSETTS	-	-	2,811	390	20	2
RHODE ISLAND	-	-	-	-	(1)	(1)
NEW YORK	2	(1)	-	-	-	-
NEW JERSEY	-	-	3,078	462	(1)	(1)
TOTAL BLUEFIN	2	(1)	5,889	852	20	
LITTLE, MASSACHUSETTS, TOTAL	-	-	247	25	-	-
GRAND TOTAL	2	(1)	6,136	877	[illegible]	

SPECIES AND STATE	POUND NETS		FLOATING TRAPS		GILL NETS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BLUEFIN:						
MASSACHUSETTS	91	26	-	-	-	-
RHODE ISLAND	-	-	24	7	-	-
NEW YORK	2	(1)	-	-	-	-
NEW JERSEY	-	-	-	-	4	1
TOTAL BLUEFIN	93	26	24	7	4	1
LITTLE:						
NEW YORK	6	1	-	-	(1)	(1)
NEW JERSEY	-	-	-	-	(1)	(1)
TOTAL LITTLE	6	1	-	-	(1)	(1)
GRAND TOTAL	99	27	24	7	4	1

SPECIES AND STATE	LINES		HARPOONS		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
BLUEFIN:						
MAINE	-	-	62	4	62	4
NEW HAMPSHIRE	-	-	15	1	15	1
MASSACHUSETTS	103	14	81	8	3,106	440
RHODE ISLAND	13	2	-	-	37	9
NEW YORK	25	5	-	-	29	5
NEW JERSEY	(1)	(1)	-	-	3,082	463
TOTAL BLUEFIN	141	21	158	13	6,331	922
LITTLE:						
MASSACHUSETTS	-	-	-	-	247	25
NEW YORK	1	(1)	-	-	7	1
NEW JERSEY	-	-	-	-	(1)	(1)
TOTAL LITTLE	1	(1)	-	-	254	26
GRAND TOTAL	142	21	158	13	6,585	948

1/ LESS THAN 500 POUNDS OR $500.

REVIEW OF CERTAIN MAJOR FISHERIES

PACIFIC TUNA FISHERY, 1970

Domestic landings of tuna at Pacific Coast and Hawaii ports were 386.9 million pounds worth $74.0 million--a gain of 64.7 million pounds (20 percent) and $19.5 million (36 percent) compared with 1969. The principal reason for the increased volume was record landings of yellowfin tuna, 237.4 million pounds (up 15 percent); near-record landings of albacore, 56.1 million (up 17 percent); and a marked increase in landings of skipjack tuna, 84.2 million pounds (up 62 percent). Bluefin tuna landings, however, were 43 percent less than in 1969. The greater value resulted chiefly from a sharp increase in the average price per pound received by fishermen for albacore tuna, and from smaller increases in the prices of bluefin, skipjack, and yellowfin tuna.

In accordance with the recommendation of the Inter-American Tropical Tuna Commission, the 1970 quota of yellowfin tuna from the eastern tropical Pacific was held to 120,000 tons. The fishery opened January 1 and closed March 23, 1970. It was the fifth consecutive year that this fishery operated under a quota system designed to maintain the yellowfin population at the maximum sustainable yield.

A total of 7,621 fishermen, 1,420 vessels, and 596 motor boats were employed in the Pacific tuna fisheries--a decline of 29 fishermen, 599 vessels, and 28 motor boats compared with 1969. Purse seines, the principal gear used in taking bluefin, skipjack, and yellowfin tuna, accounted for 76 percent of the landings. Lines, used mainly in taking albacore tuna, accounted for the remaining 24 percent.

SUMMARY OF PACIFIC TUNA OPERATING UNITS, 1970

ITEM	PURSE SEINES	LINES			TOTAL, EXCLUSIVE OF DUPLICATION
		HAND		TROLL, ALBACORE	
		ALBACORE	YELLOWFIN 1/		
	NUMBER				
FISHERMEN:					
ON VESSELS.	1,532	2,710	558	2,548	6,763
ON BOATS AND SHORE. . . .	-	487	27	356	858
TOTAL FISHERMEN . . .	1,532	3,197	585	2,904	7,621
VESSELS, MOTOR:					
5 - 9 TONS.	-	7	-	78	83
10 - 19 TONS.	5	82	10	452	486
20 - 29 TONS.	5	76	3	290	320
30 - 39 TONS.	6	40	8	163	183
40 - 49 TONS.	2	24	6	80	91
50 - 59 TONS.	3	23	9	54	63
60 - 69 TONS.	1	10	4	13	20
70 - 79 TONS.	3	9	4	9	18
80 - 89 TONS.	3	2	1	4	8
90 - 99 TONS.	8	2	-	5	13
100 - 109 TONS.	-	4	3	3	5
110 - 119 TONS.	4	1	1	3	7
120 - 129 TONS.	2	2	1	-	4
130 - 139 TONS.	1	2	1	1	4
140 - 149 TONS.	-	1	-	2	2
150 - 159 TONS.	2	-	-	-	2
160 - 169 TONS.	1	2	1	1	3
170 - 179 TONS.	-	-	-	1	1
180 - 189 TONS.	2	2	-	-	4
190 - 199 TONS.	5	8	5	2	13
210 - 219 TONS.	1	-	-	-	1
230 - 239 TONS.	2	-	-	-	2
250 - 259 TONS.	1	-	-	-	1
260 - 269 TONS.	1	-	-	-	1
270 - 279 TONS.	4	1	1	-	4
290 - 299 TONS.	2	1	-	-	3

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF PACIFIC TUNA OPERATING UNITS, 1970 - Continued

ITEM	PURSE SEINES	LINES			TOTAL, EXCLUSIVE OF DUPLICATION
		HAND		TROLL, ALBACORE	
		ALBACORE	YELLOWFIN 1/		
	NUMBER				
VESSELS, MOTOR - CONTINUED:					
300 - 309 TONS.	1	-	-	-	1
310 - 319 TONS.	3	1	1	-	3
330 - 339 TONS.	2	1	1	-	3
340 - 349 TONS.	2	-	-	-	2
350 - 359 TONS.	4	-	-	-	4
360 - 369 TONS.	2	-	-	-	2
370 - 379 TONS.	1	-	-	-	1
380 - 389 TONS.	2	-	-	-	2
390 - 399 TONS.	1	-	-	-	1
400 - 409 TONS.	1	-	-	-	1
410 - 419 TONS.	1	-	-	-	1
420 - 429 TONS.	2	-	-	-	2
430 - 439 TONS.	3	1	1	-	4
440 - 449 TONS.	2	1	1	-	3
460 - 469 TONS.	2	-	-	-	2
470 - 479 TONS.	1	-	-	-	1
480 - 489 TONS.	2	-	-	-	2
490 - 499 TONS.	1	-	-	-	
560 - 569 TONS.	1	-	-	-	
570 - 579 TONS.	1	-	-	-	[illegible]
580 - 589 TONS.	1	-	-	-	1
630 - 639 TONS.	2	-	-	-	2
670 - 679 TONS.	8	-	-	-	8
690 - 699 TONS.	1	-	-	-	1
710 - 719 TONS.	1	-	-	-	1
720 - 729 TONS.	5	-	-	-	5
730 - 739 TONS.	1	-	-	-	1
750 - 759 TONS.	2	-	-	-	2
760 - 769 TONS.	1	-	-	-	1
770 - 779 TONS.	1	-	-	-	1
830 - 839 TONS.	1	-	-	-	1
840 - 849 TONS.	1	-	-	-	1
860 - 869 TONS.	8	-	-	-	8
880 - 889 TONS.	2	-	-	-	2
910 - 919 TONS.	1	-	-	-	1
920 - 929 TONS.	2	-	-	-	2
990 - 999 TONS.	1	-	-	-	1
1130 - 1139 TONS.	1	-	-	-	
TOTAL VESSELS	139	303	62	1,161	1,420
TOTAL GROSS TONNAGE .	53,033	13,994	5,537	30,126	90,267
BOATS, MOTOR.	267	98	3	234	596
GEAR:					
NUMBER.	151	3,026	585	11,906	-
LENGTH, YARDS	121,950	-	-	-	-
HOOKS	-	3,026	585	24,688	-

1/ VESSELS OF 50 TONS OR MORE CAPACITY ARE CONSIDERED CLIPPER CRAFT.

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF PACIFIC TUNA LANDINGS, 1970

SPECIES, STATE, AND DISTRICT	PURSE SEINES 1/		LINES		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
ALBACORE:						
WASHINGTON:						
PUGET SOUND	-	-	377	99	377	99
COASTAL	-	-	900	241	900	241
COLUMBIA RIVER.	-	-	3,113	856	3,113	856
TOTAL	-	-	4,390	1,196	4,390	1,196
OREGON:						
COLUMBIA RIVER.	-	-	18,749	5,156	18,749	5,156
COASTAL	-	-	3,049	800	3,049	800
TOTAL	-	-	21,798	5,956	21,798	5,956
CALIFORNIA:						
NORTHERN.	-	-	7,068	1,787	7,068	1,787
SAN FRANCISCO	100	26	4,211	1,087	4,311	1,113
MONTEREY.	30	8	4,478	1,166	4,508	1,174
SANTA BARBARA	303	79	4,900	1,283	5,203	1,362
SAN PEDRO	34	9	5,660	1,560	5,694	1,569
SAN DIEGO	34	9	3,114	832	3,148	841
TOTAL	501	131	29,431	7,715	29,932	7,846
HAWAII.	-	-	20	10	20	10
GRAND TOTAL, ALBACORE	501	131	55,639	14,877	56,140	15,008
BLUEFIN:						
CALIFORNIA:						
SAN PEDRO	5,951	1,113	467	87	6,418	1,200
SAN DIEGO	2,169	383	68	13	2,237	396
TOTAL	8,120	1,496	535	100	8,655	1,596
HAWAII 2/	-	-	477	510	477	510
GRAND TOTAL, BLUEFIN.	8,120	1,496	1,012	610	9,132	2,106
LITTLE, HAWAII.	(3)	(3)	17	5	17	5
SKIPJACK:						
WASHINGTON, COLUMBIA RIVER	-	-	(3)	(3)	(3)	(3)
OREGON, COLUMBIA RIVER. .	409	65	-	-	409	65
CALIFORNIA:						
SANTA BARBARA	-	-	2	(3)	2	(3)
SAN PEDRO	43,981	6,910	12,002	1,884	55,983	8,794
SAN DIEGO	14,247	2,289	6,249	1,000	20,496	3,289
TOTAL	58,228	9,199	18,253	2,884	76,481	12,083
HAWAII.	-	-	7,342	1,497	7,342	1,497
GRAND TOTAL, SKIPJACK	58,637	9,264	25,595	4,381	84,232	13,645
YELLOWFIN:						
OREGON, COLUMBIA RIVER. .	4,730	862	-	-	4,730	862
CALIFORNIA:						
SAN PEDRO	182,465	33,025	6,236	1,129	188,701	34,154
SAN DIEGO	39,909	7,131	3,365	605	43,274	7,736
TOTAL	222,374	40,156	9,601	1,734	231,975	41,890
HAWAII.	-	-	683	499	683	499
GRAND TOTAL, YELLOWFIN.	227,104	41,018	10,284	2,233	237,388	43,251
GRAND TOTAL, ALL SPECIES.	294,362	51,909	92,547	22,106	386,909	74,015

1/ INCLUDES HAUL SEINES IN HAWAII.

2/ INCLUDES THE LANDINGS OF BIGEYE TUNA.

3/ LESS THAN 500 POUNDS OR $500.

LANDINGS OF TUNA BY U.S. FLAG VESSELS, BY OCEAN OF CAPTURE AND SPECIES, 1960-70

YEAR	ATLANTIC OCEAN					
	BLUEFIN	LITTLE	SKIPJACK	YELLOWFIN	UNCLASSIFIED	TOTAL
	- - - - - - - - - - - - - - - - THOUSAND POUNDS - - - - - - - - - - - - - - - -					
1960.	1,403	15	-	-	-	1,418
1961.	2,368	3	-	-	-	2,371
1962.	8,751	17	1,021	37	-	9,826
1963.	12,506	12	4,530	-	11	17,059
1964.	10,764	4	8,578	-	123	19,469
1965.	7,020	22	141	-	251	7,434
1966.	2,730	47	87	-	8	2,872
1967.	5,114	15	950	1,620	23	7,722
1968.	1,779	13	6,844	13,454	4	22,094
1969.	2,703	16	12,592	38,346	2	53,659
1970.	7,335	254	23,668	25,658	-	56,915

YEAR	PACIFIC OCEAN					
	ALBACORE	BLUEFIN 1/	LITTLE	SKIPJACK	YELLOWFIN	TOTAL
	- - - - - - - - - - - - - - - - THOUSAND POUNDS - - - - - - - - - - - - - - - -					
1960.	40,211	13,248	4	59,352	204,880	317,695
1961.	32,844	21,920	2	86,746	212,971	354,483
1962.	45,955	32,421	13	121,286	131,446	331,121
1963.	60,802	31,301	60	134,921	114,502	341,586
1964.	48,070	24,010	35	99,219	163,419	334,753
1965.	37,220	16,794	15	142,845	169,163	366,037
1966.	36,991	36,979	28	98,436	158,564	330,998
1967.	48,367	14,905	49	195,998	159,209	418,528
1968.	55,902	13,500	27	108,672	201,333	379,434
1969.	48,138	15,945	37	71,724	249,647	385,491
1970.	56,140	9,132	17	91,722	278,970	435,981

YEAR	TOTAL						
	ALBACORE	BLUEFIN 1/	LITTLE	SKIPJACK	YELLOWFIN	UNCLASSIFIED	TOTAL
	- - - - - - - - - - - - - - - - THOUSAND POUNDS - - - - - - - - - - - - - - - -						
1960.	40,211	14,651	19	59,352	204,880	-	319,113
1961.	32,844	24,288	5	86,746	212,971	-	356,854
1962.	45,955	41,172	30	122,307	131,483	-	340,947
1963.	60,802	43,807	72	139,451	114,502	11	358,645
1964.	48,070	34,774	39	107,797	163,419	123	354,222
1965.	37,220	23,814	37	142,986	169,163	251	373,471
1966.	36,991	39,709	75	98,523	158,564	8	333,870
1967.	48,367	20,019	64	196,948	160,829	23	426,250
1968.	55,902	15,279	40	115,516	214,787	4	401,528
1969.	48,138	18,648	53	84,316	287,993	2	439,150
1970.	56,140	16,467	271	115,390	304,628	-	492,896

1/ INCLUDES DATA ON LANDINGS OF BIGEYE TUNA IN HAWAII.

NOTE:--INCLUDES LANDINGS IN PUERTO RICO, AMERICAN SAMOA, AND AT FOREIGN PORTS FOR EXPORT TO FOREIGN COUNTRIES.

REVIEW OF CERTAIN MAJOR FISHERIES

U.S. MENHADEN FISHERY, 1970

Menhaden landings were 1.8 billion pounds--an increase of 292.0 million pounds compared with 1969, and the best production since the record harvest of 1962. Menhaden was 37 percent of the U.S. landings--compared with 35 percent in 1964 and 44 percent in 1962.

Gulf States landings were greater than Atlantic coast landings for the eighth consecutive year. They accounted for 66 percent of the total. On the Atlantic coast, the Chesapeake States had 24 percent of the landings, followed by the South Atlantic States (7 percent); Middle Atlantic States (2 percent); and the New England States (1 percent).

Purse seines accounted for 97 percent of the landings. The rest was taken by haul seines, otter trawls, pound nets, floating traps, fyke and hoop nets, gill nets, and trammel nets.

There were 2,066 fishermen, 124 vessels, 293 motor boats, and 2 other boats employed in the menhaden purse seine fishery.

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1970

GROSS TONNAGE	NEW ENGLAND, RHODE ISLAND	MIDDLE ATLANTIC, NEW JERSEY	CHESAPEAKE, VIRGINIA	SOUTH ATLANTIC		
				NORTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
5 - 9	-	1	-	-	-	-
10 - 19	-	1	-	-	-	-
30 - 39	-	2	-	-	-	-
40 - 49	2	1	-	1	-	1
50 - 59	-	-	-	1	-	1
60 - 69	-	-	-	2	-	2
70 - 79	-	-	-	1	-	1
140 - 149	-	-	-	-	1	1
190 - 199	-	-	5	4	-	4
200 - 209	-	-	2	3	1	4
210 - 219	-	-	-	1	-	1
220 - 229	-	-	1	-	-	-
240 - 249	-	1	2	5	-	5
250 - 259	-	-	6	6	-	6
260 - 269	-	-	6	6	-	6
280 - 289	-	-	1	1	-	1
290 - 299	-	-	-	1	-	1
320 - 329	-	-	-	1	-	1
450 - 459	-	-	-	1	-	1
520 - 529	-	-	-	1	-	1
530 - 539	-	-	-	1	-	1
540 - 549	-	-	1	1	-	1
550 - 559	-	-	1	1	-	1
600 - 609	-	-	-	1	-	1
610 - 619	-	-	-	1	-	1
640 - 649	-	-	-	1	-	1
TOTAL VESSELS	2	6	25	41	2	43
TOTAL GROSS TONNAGE	88	377	6,606	11,649	348	11,997

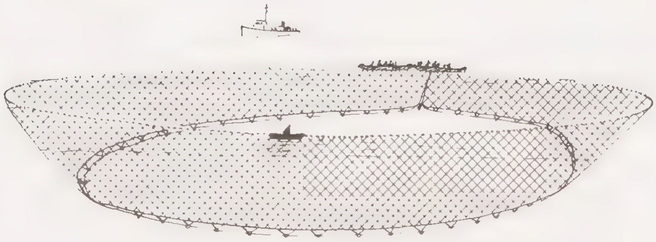
(CONTINUED ON NEXT PAGE)

SUMMARY OF MENHADEN PURSE SEINE VESSELS, BY TONNAGE GROUPS, 1970 - Continued

GROSS TONNAGE	GULF				GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER				
5 - 9	-	-	-	-	1
10 - 19	-	-	-	-	1
30 - 39	-	-	-	-	[illegible]
40 - 49	-	-	-	-	4
50 - 59	-	-	-	-	1
60 - 69	-	-	-	-	[illegible]
70 - 79	-	-	-	-	1
120 - 129	1	-	-	1	1
140 - 149	-	-	-	-	1
160 - 169	-	1	-	1	1
170 - 179	1	3	3	4	4
180 - 189	1	4	3	4	4
190 - 199	4	5	2	9	13
200 - 209	-	-	-	-	4
210 - 219	-	1	-	1	2
220 - 229	2	1	-	3	4
240 - 249	-	2	1	2	7
250 - 259	1	2	-	3	11
260 - 269	-	1	-	1	7
270 - 279	-	1	-	1	1
280 - 289	-	2	-	2	4
290 - 299	1	-	-	1	2
310 - 319	-	2	-	2	2
320 - 329	-	1	-	1	2
360 - 369	-	2	-	2	2
370 - 379	-	2	-	2	[illegible]
380 - 389	-	2	-	2	2
410 - 419	-	2	-	2	2
430 - 439	-	1	-	1	1
450 - 459	1	-	-	1	[illegible]
460 - 469	-	1	-	1	1
470 - 479	3	5	-	5	5
480 - 489	-	2	-	2	2
500 - 509	-	1	-	1	1
510 - 519	-	2	-	2	2
520 - 529	1	4	-	5	5
530 - 539	1	9	-	10	10
540 - 549	-	-	-	-	1
550 - 559	-	1	-	1	2
600 - 609	-	1	1	1	[illegible]
610 - 619	-	1	-	1	1
640 - 649	-	1	1	1	1
TOTAL VESSELS	17	63	11	76	124
TOTAL GROSS TONNAGE .	5,197	24,103	2,945	27,689	37,550

SUMMARY OF MENHADEN PURSE SEINE OPERATING UNITS, 1970

AREA AND STATE	VESSELS		BOATS		FISHERMEN	PURSE SEINES	
			MOTOR	OTHER			
	NUMBER	GROSS TONNAGE	NUMBER				LENGTH IN YARDS
NEW ENGLAND, RHODE ISLAND, TOTAL, EXCLUSIVE OF DUPLICATION	2	88	2	2	10	2	560
MIDDLE ATLANTIC, NEW JERSEY, TOTAL, EXCLUSIVE OF DUPLICATION.	6	377	4	2	53	6	2,175
CHESAPEAKE, VIRGINIA, TOTAL, EXCLUSIVE OF DUPLICATION	25	6,606	50	-	405	25	9,375
SOUTH ATLANTIC:							
NORTH CAROLINA.	41	11,649	82	-	692	41	16,400
FLORIDA, EAST COAST . . .	2	348	4	-	30	2	866
TOTAL, EXCLUSIVE OF DUPLICATION.	43	11,997	86	-	722	43	17,266
GULF:							
MISSISSIPPI	17	5,197	33	-	295	17	8,550
LOUISIANA	63	24,103	126	-	1,068	63	35,240
TEXAS	11	2,945	22	-	187	11	5,345
TOTAL, EXCLUSIVE OF DUPLICATION.	76	27,689	151	-	1,363	76	41,235
GRAND TOTAL, EXCLUSIVE OF DUPLICATION.	124	37,550	268	4	2,066	124	58,003



Menhaden purse seine

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF MENHADEN LANDINGS, 1970

AREA AND STATE	HAUL SEINES		PURSE SEINES		OTTER TRAWLS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MASSACHUSETTS	-	-	843	11	-	-
RHODE ISLAND.	-	-	9,245	117	-	-
CONNECTICUT	-	-	-	-	(1)	(1)
TOTAL	-	-	10,088	128	(1)	(1)
MIDDLE ATLANTIC:						
NEW YORK.	106	5	-	-	-	-
NEW JERSEY.	-	-	28,964	537	17	1
TOTAL	106	5	28,964	537	17	1
CHESAPEAKE:						
MARYLAND.	46	2	-	-	-	-
VIRGINIA.	584	12	405,960	6,739	-	-
TOTAL	630	14	405,960	6,739	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA.	-	-	108,235	1,570	-	-
SOUTH CAROLINA.	10	(1)	-	-	-	-
FLORIDA, EAST COAST . . .	-	-	27,065	341	-	-
TOTAL	10	(1)	135,300	1,911	-	-
GULF:						
FLORIDA, WEST COAST . . .	93	3	1	(1)	-	-
MISSISSIPPI	-	-	205,980	3,888	-	-
LOUISIANA	-	-	959,810	18,931	-	-
TEXAS	-	-	43,060	903	-	-
TOTAL	93	3	1,208,851	23,722	-	-
GRAND TOTAL	839	22	1,789,163	33,037	17	1

AREA AND STATE	POUND NETS		FLOATING TRAPS		FYKE AND HOOP NETS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MASSACHUSETTS	106	2	31	(1)	-	-
RHODE ISLAND.	-	-	153	3	-	-
TOTAL	106	2	184	3	-	-
MIDDLE ATLANTIC:						
NEW YORK.	636	29	-	-	-	-
NEW JERSEY.	1,560	47	-	-	-	-
TOTAL	2,196	76	-	-	-	-
CHESAPEAKE:						
MARYLAND.	3,446	102	-	-	(1)	(1)
VIRGINIA.	39,109	767	-	-	307	6
TOTAL	42,555	869	-	-	307	6
GRAND TOTAL	44,857	947	184	3	307	6

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF MENHADEN LANDINGS, 1970 - Continued

AREA AND STATE	GILL NETS		TRAMMEL NETS		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MASSACHUSETTS	-	-	-	-	980	13
RHODE ISLAND.	-	-	-	-	9,398	120
CONNECTICUT	128	3	-	-	128	3
TOTAL	128	3	-	-	10,506	136
MIDDLE ATLANTIC:						
NEW YORK.	-	-	-	-	742	34
NEW JERSEY.	187	7	-	-	30,728	592
TOTAL	187	7	-	-	31,470	626
CHESAPEAKE:						
MARYLAND.	345	10	-	-	3,837	114
VIRGINIA.	-	-	-	-	445,960	7,524
TOTAL	345	10	-	-	449,797	7,638
SOUTH ATLANTIC:						
NORTH CAROLINA.	-	-	-	-	108,235	1,570
SOUTH CAROLINA.	-	-	-	-	10	(1)
FLORIDA, EAST COAST . . .	943	29	-	-	28,008	370
TOTAL	943	29	-	-	136,253	1,940
GULF:						
FLORIDA, WEST COAST . . .	511	19	12	(1)	617	22
MISSISSIPPI	-	-	-	-	205,980	3,888
LOUISIANA	-	-	-	-	959,810	18,931
TEXAS	-	-	-	-	43,060	903
TOTAL	511	19	12	(1)	1,209,467	23,744
GRAND TOTAL	2,114	68	12	(1)	1,837,493	34,064

1/ LESS THAN 500 POUNDS OR $500.

U.S. CLAM FISHERY, 1970

Record landings of 99.2 million pounds of clam meats worth a record $28.8 million were 18.5 million pounds (23 percent) and $3.6 million (14 percent) more than in 1969, the former record year. The harvest increased in all regions, with record landings in the Middle Atlantic States (63.3 million pounds) and the Chesapeake States (22.7 million pounds). The Middle Atlantic States led with 64 percent of the landings, followed by the Chesapeake States with 23 percent; New England, 11 percent; and the Pacific Coast, Gulf and South Atlantic States with the remaining 2 percent.

Record landings of 67.3 million pounds of surf clam meats increased 36 percent compared with 1969, and contributed substantially to the greater production. Surf clams, landed principally in New Jersey, accounted for 68 percent of the total volume; hard clams were 16 percent, and soft clams, 13 percent. The rest consisted of geoduck, horse, ocean quahog, rangia, razor, sunray venus, and mixed clams. A fishery for geoduck clams developed in Washington. These large "king" clams with enormous necks were in Puget Sound where they were reached by divers using underwater air or water jets. Most of the clams were steaked for restaurant use.

Dredges took 80.4 million pounds (81 percent); hoes, 6.6 million (7 percent); rakes, 6.2 million (6 percent); and tongs, 4.4 million pounds (4 percent). The rest of the landings were taken with shovels or gathered by hand.

In Section 13 of this digest, under the heading "Conversion Factors", there is a table which gives the average State yield per U.S. standard bushel for clams taken on the Atlantic and Gulf coasts. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf regional section.

SUMMARY OF CLAM LANDINGS, 1970

AREA AND STATE	GEODUCK		HARD		HORSE		OCEAN QUAHOG	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:								
MAINE	-	-	8	9	-	-	-	-
MASSACHUSETTS	-	-	1,257	1,161	-	-	4	2
RHODE ISLAND	-	-	1,080	728	-	-	1,435	251
CONNECTICUT	-	-	283	219	-	-	308	52
TOTAL	-	-	2,628	2,117	-	-	1,747	305
MIDDLE ATLANTIC:								
NEW YORK	-	-	7,906	8,977	-	-	-	-
NEW JERSEY	-	-	2,576	1,544	-	-	-	-
DELAWARE	-	-	89	56	-	-	-	-
TOTAL	-	-	10,571	10,577	-	-	-	-
CHESAPEAKE:								
MARYLAND	-	-	568	317	-	-	-	-
VIRGINIA	-	-	1,331	872	-	-	-	-
TOTAL	-	-	1,899	1,189	-	-	-	-
SOUTH ATLANTIC:								
NORTH CAROLINA	-	-	282	157	-	-	-	-
SOUTH CAROLINA	-	-	87	40	-	-	-	-
GEORGIA	-	-	17	7	-	-	-	-
FLORIDA, EAST COAST	-	-	51	28	-	-	-	-
TOTAL	-	-	437	232	-	-	-	-
GULF, FLORIDA, WEST COAST, TOTAL	-	-	10	5	-	-	-	-
PACIFIC, WASHINGTON, TOTAL	21	13	470	224	8	1	-	-
GRAND TOTAL	21	13	16,015	14,344	8	1	1,747	305

AREA AND STATE	RANGIA		RAZOR		SOFT		SUNRAY VENUS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:								
MAINE	-	-	-	-	5,259	2,497	-	-
MASSACHUSETTS	-	-	4	2	1,189	918	-	-
RHODE ISLAND	-	-	-	-	87	57	-	-
TOTAL	-	-	4	2	6,535	3,472	-	-
MIDDLE ATLANTIC:								
NEW YORK	-	-	5	2	73	28	-	-
NEW JERSEY	-	-	-	-	70	36	-	-
TOTAL	-	-	5	2	143	64	-	-
CHESAPEAKE, MARYLAND, TOTAL	-	-	-	-	[illegible]	[illegible]	-	-
SOUTH ATLANTIC, NORTH CAROLINA, TOTAL	54	16	-	-	-	-	-	-
GULF, FLORIDA, WEST COAST, TOTAL	-	-	-	-	-	-	760	76
PACIFIC:								
ALASKA	-	-	67	40	-	-	-	-
WASHINGTON	-	-	285	[illegible]	[illegible]	[illegible]	-	-
OREGON	-	-	6	[illegible]	-	-	-	-
TOTAL	-	-	358	313	9	[illegible]	-	-
GRAND TOTAL	54	16	[illegible]	[illegible]	[illegible]	[illegible]	760	76

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SUMMARY OF CLAM LANDINGS, 1970 - Continued

AREA AND STATE	SURF		MIXED		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	-	-	-	-	5,267	2,506
MASSACHUSETTS	86	19	-	-	2,540	2,102
RHODE ISLAND.	77	16	-	-	2,679	1,052
CONNECTICUT	-	-	-	-	591	271
TOTAL	163	35	-	-	11,077	5,931
MIDDLE ATLANTIC:						
NEW YORK.	4,182	490	-	-	12,166	9,497
NEW JERSEY.	39,669	4,685	-	-	42,315	6,265
DELAWARE.	8,734	935	-	-	8,823	991
TOTAL	52,585	6,110	-	-	63,304	16,753
CHESAPEAKE:						
MARYLAND.	13,681	1,475	-	-	20,470	4,226
VIRGINIA.	889	110	-	-	2,220	982
TOTAL	14,570	1,585	-	-	22,690	5,208
SOUTH ATLANTIC:						
NORTH CAROLINA.	-	-	-	-	336	173
SOUTH CAROLINA.	-	-	-	-	87	40
GEORGIA	-	-	-	-	17	7
FLORIDA, EAST COAST . .	-	-	-	-	51	26
TOTAL	-	-	-	-	491	248
GULF, FLORIDA, WEST COAST, TOTAL	-	-	-	-	770	81
PACIFIC:						
ALASKA.	-	-	-	-	67	40
WASHINGTON.	-	-	-	-	793	515
OREGON.	-	-	6	7	12	15
TOTAL	-	-	6	7	872	570
GRAND TOTAL	67,318	7,730	6	7	99,204	28,791

HARD CLAM

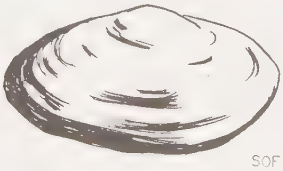
SUMMARY OF CLAM LANDINGS OF CATCH BY GEAR, 1970

GEAR	GEODUCK		HARD		HORSE	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
DREDGES	-	-	4,272	3,668	8	1
TONGS	-	-	4,359	3,866	-	-
RAKES	-	-	6,084	6,037	-	-
HOES	-	-	20	19	-	-
SHOVELS	-	-	271	148	-	-
DIVING OUTFITS	21	13	3	1	-	-
BY HAND	-	-	1,006	605	-	-
TOTAL	21	13	16,015	14,344	8	1

GEAR	OCEAN QUAHOG		RANGIA		RAZOR	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
DREDGES	1,747	305	54	16	-	-
RAKES	-	-	-	-	6	2
HOES	-	-	-	-	2	2
SHOVELS	-	-	-	-	359	313
TOTAL	1,747	305	54	16	367	317

GEAR	SOFT		SUNRAY VENUS		SURF	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
DREDGES	6,231	2,446	760	76	67,310	7,727
RAKES	97	51	-	-	-	-
HOES	6,545	3,467	-	-	8	3
BY HAND	35	18	-	-	-	-
TOTAL	12,908	5,982	760	76	67,318	7,730

GEAR	MIXED		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
DREDGES	-	-	80,382	14,239
TONGS	-	-	4,359	3,866
RAKES	-	-	6,187	6,090
HOES	-	-	6,575	3,491
SHOVELS	6	7	636	468
DIVING OUTFITS	-	-	24	14
BY HAND	-	-	1,041	623
TOTAL	6	7	99,204	28,791



SOFT CLAM

U.S. CRAB FISHERY, 1970

Crab landings of 277.2 million pounds worth $39.2 million increased 19.9 million pounds, but declined $3.9 million compared with 1969.

The harvest was greater in all areas and increased sharply in the Chesapeake and Pacific Coast States. Chesapeake blue crab landings of 69.8 million pounds were 15 percent more than in 1969. Most of the gain was in Virginia where landings of 43.3 million pounds increased 22 percent. The Pacific Coast States harvest was 125.6 million pounds--an increase of 8.1 million compared with 1969. Record landings of dungeness crabs (58.5 million pounds) and snow crabs (14.5 million) accounted largely for the gain. Compared with 1969, Oregon landings of dungeness crabs (14.9 million pounds) increased 53 percent and California landings (15.4 million) nearly doubled. Alaska and Washington landings of dungeness crabs declined moderately however, and Alaska landings of king crabs (52.1 million pounds) declined for the fourth consecutive year.

The Pacific Coast States led in volume with 125.6 million pounds (45 percent) followed by the Chesapeake States with 69.8 million (25 percent); South Atlantic States, 42.9 million (15 percent); and Gulf States, 35.6 million pounds (13 percent). The rest was landed in the New England and Middle Atlantic States, and in Hawaii.

The use of crab dredge operating units was confined to Virginia. A total of 465 fishermen operated 324 crab dredges measuring 554 yards at mouth. Of this number, 447 fishermen were on 173 vessels and 18 fishermen were on 18 motor boats. Fifty vessels were 5 to 9 tons; 67, 10-19 tons; 34, 20-29 tons; 13, 30-39 tons; 5, 40-49 tons; 1, 50-59 tons; 2, 60-69 tons; and 1, 70-79 tons. The total tonnage was 3,007 gross tons.

SUMMARY OF CRAB POT OPERATING UNITS, 1970

ITEM	NEW ENGLAND				
	NEW HAMPSHIRE	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN, ON BOATS AND SHORE	29	1	1	2	33
BOATS, MOTOR	18	1	1	1	21
GEAR, NUMBER	468	30	130	25	653

ITEM	MIDDLE ATLANTIC			CHESAPEAKE		
	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN:						
ON VESSELS	-	-	-	217	348	565
ON BOATS AND SHORE	79	29	108	826	1,239	2,065
TOTAL FISHERMEN	79	29	108	1,043	1,587	2,630
VESSELS, MOTOR:						
5 - 9 TONS	-	-	-	165	205	370
10 - 19 TONS	-	-	-	41	22	63
20 - 29 TONS	-	-	-	-	1	1
30 - 39 TONS	-	-	-	1	-	1
TOTAL VESSELS	-	-	-	207	228	435
TOTAL GROSS TONNAGE	-	-	-	1,699	1,681	3,371
BOATS, MOTOR	79	23	102	806	1,100	1,906
GEAR, NUMBER	4,271	2,050	6,321	86,160	168,275	254,435

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SUMMARY OF CRAB POT OPERATING UNITS, 1970 - Continued

ITEM	SOUTH ATLANTIC				
	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN:					
ON VESSELS.	30	2	-	2	34
ON BOATS AND SHORE. . . .	316	141	174	182	813
TOTAL FISHERMEN . . .	346	143	174	184	847
VESSELS, MOTOR:					
5 - 9 TONS.	15	1	-	-	16
10 - 19 TONS.	4	-	-	1	5
TOTAL VESSELS	19	1	-	1	21
TOTAL GROSS TONNAGE .	153	9	-	14	176
BOATS, MOTOR.	315	141	120	176	752
GEAR, NUMBER.	26,655	8,170	7,790	31,100	73,715

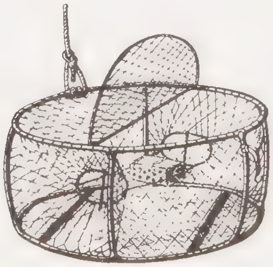
ITEM	GULF					
	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
FISHERMEN:						
ON VESSELS.	31	-	-	-	-	31
ON BOATS AND SHORE. . . .	432	94	71	557	100	1,254
TOTAL FISHERMEN . . .	463	94	71	557	100	1,285
VESSELS, MOTOR:						
5 - 9 TONS.	1	-	-	-	-	1
10 - 19 TONS.	11	-	-	-	-	11
20 - 29 TONS.	1	-	-	-	-	1
30 - 39 TONS.	2	-	-	-	-	2
40 - 49 TONS.	1	-	-	-	-	1
TOTAL VESSELS	16	-	-	-	-	16
TOTAL GROSS TONNAGE .	274	-	-	-	-	274
BOATS, MOTOR.	366	88	58	542	100	1,154
GEAR, NUMBER.	91,740	14,100	4,600	75,760	14,300	200,500

ITEM	PACIFIC				
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
FISHERMEN:					
ON VESSELS.	1,008	365	392	474	2,105
ON BOATS AND SHORE. . . .	142	96	71	132	441
TOTAL FISHERMEN . . .	1,150	461	463	606	2,546
VESSELS, MOTOR:					
5 - 9 TONS.	12	17	20	31	76
10 - 19 TONS.	50	54	72	116	281
20 - 29 TONS.	39	29	39	42	134
30 - 39 TONS.	29	22	15	15	77
40 - 49 TONS.	37	13	6	21	70
50 - 59 TONS.	22	3	6	9	38
60 - 69 TONS.	14	2	1	1	15
70 - 79 TONS.	6	-	-	1	7
80 - 89 TONS.	6	3	-	-	8
90 - 99 TONS.	12	1	1	1	14
100 - 109 TONS.	13	-	-	-	13
110 - 119 TONS.	11	3	-	-	11
120 - 129 TONS.	6	-	-	-	6
130 - 139 TONS.	5	-	-	-	5
140 - 149 TONS.	8	-	-	-	8
150 - 159 TONS.	3	-	-	-	3
160 - 169 TONS.	16	1	1	-	16
170 - 179 TONS.	8	-	-	-	8
180 - 189 TONS.	12	-	-	-	12
190 - 199 TONS.	16	-	-	-	16

(CONTINUED ON NEXT PAGE)

SUMMARY OF CRAB POT OPERATING UNITS, 1970 - Continued

ITEM	PACIFIC				
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
VESSELS, MOTOR - CONTINUED:					
270 - 279 TONS.	1	-	-	-	1
280 - 289 TONS.	1	-	-	-	1
290 - 299 TONS.	2	-	-	-	2
320 - 329 TONS.	2	-	-	-	2
340 - 349 TONS.	1	-	-	-	1
430 - 439 TONS.	1	-	-	-	1
490 - 499 TONS.	1	-	-	-	1
530 - 539 TONS.	1	-	-	-	1
590 - 599 TONS.	1	-	-	-	1
TOTAL VESSELS	336	148	161	237	829
TOTAL GROSS TONNAGE	27,904	4,050	3,582	4,970	38,304
BOATS:					
MOTOR	71	59	44	66	239
OTHER	-	2	-	-	2
GEAR, NUMBER	67,559	39,500	48,050	39,390	183,529

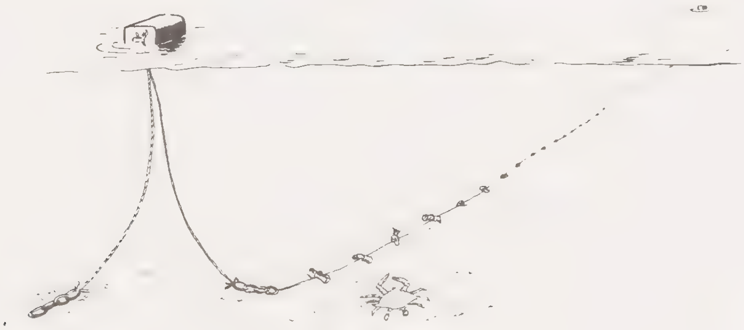


DUNGENESS CRAB POT

SUMMARY OF CRAB TROT LINE OPERATING UNITS, 1970

ITEM	CHESAPEAKE		SOUTH ATLANTIC	
	MARYLAND	VIRGINIA	NORTH CAROLINA	SOUTH CAROLINA
	NUMBER			
FISHERMEN:				
ON VESSELS	183	6	2	-
ON BOATS AND SHORE	5,398	65	108	4
TOTAL FISHERMEN	5,581	71	110	4
VESSELS, MOTOR:				
5 - 9 TONS	149	2	2	-
10 - 19 TONS	27	1	-	-
TOTAL VESSELS	176	3	2	-
TOTAL GROSS TONNAGE	1,348	23	12	-
BOATS, MOTOR	4,765	62	108	4
GEAR:				
NUMBER	5,583	66	110	8
HOOKS OR BAITS	1,393,115	33,800	74,900	3,200

ITEM	GULF		TOTAL, EXCLUSIVE OF DUPLICATION
	MISSISSIPPI	LOUISIANA	
	NUMBER		
FISHERMEN:			
ON VESSELS	-	-	191
ON BOATS AND SHORE	2	342	5,919
TOTAL FISHERMEN	2	342	6,110
VESSELS, MOTOR:			
5 - 9 TONS	-	-	153
10 - 19 TONS	-	-	28
TOTAL VESSELS	-	-	181
TOTAL GROSS TONNAGE	-	-	1,383
BOATS, MOTOR	2	342	5,283
GEAR:			
NUMBER	2	1,197	6,966
HOOKS OR BAITS	1,200	217,620	1,696,835

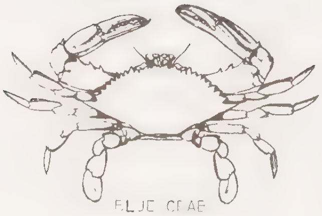


Trot with baits

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF CRAB OTTER TRAWL OPERATING UNITS, 1970

ITEM	SOUTH ATLANTIC		TOTAL EXCLUSIVE OF DUPLICATION
	NORTH CAROLINA	GEORGIA	
	NUMBER		
FISHERMEN:			
ON VESSELS.	275	86	359
ON BOATS AND SHORE.	120	52	172
TOTAL FISHERMEN	395	138	531
VESSELS, MOTOR:			
5 - 9 TONS.	50	3	53
10 - 19 TONS.	40	8	47
20 - 29 TONS.	16	5	21
30 - 39 TONS.	17	10	27
40 - 49 TONS.	10	7	17
50 - 59 TONS.	4	2	6
60 - 69 TONS.	2	6	8
70 - 79 TONS.	1	1	2
80 - 89 TONS.	1	1	2
90 - 99 TONS.	1	-	1
TOTAL VESSELS	142	43	184
TOTAL GROSS TONNAGE . .	2,924	1,558	4,468
BOATS, MOTOR.	94	33	127
GEAR:			
NUMBER.	334	115	449
YARDS AT MOUTH.	4,295	1,864	6,125



BLUE CRAB

SUMMARY OF CRAB LANDINGS, 1970

AREA AND STATE	BLUE				DUNGENESS	
	HARD		SOFT AND PEELER			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND, CONNECTICUT.	(1)	(1)	-	-	-	-
MIDDLE ATLANTIC:						
NEW JERSEY.	751	113	33	8	-	-
DELAWARE.	608	107	2	1	-	-
TOTAL	1,359	220	35	9	-	-
CHESAPEAKE:						
MARYLAND.	24,935	2,087	1,580	670	-	-
VIRGINIA.	42,416	2,388	910	338	-	-
TOTAL	67,351	4,475	2,490	1,008	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA.	20,880	1,238	60	23	-	-
SOUTH CAROLINA.	6,950	455	-	-	-	-
GEORGIA	7,092	428	-	-	-	-
FLORIDA, EAST COAST . . .	7,779	651	(1)	(1)	-	-
TOTAL	42,701	2,772	60	23	-	-
GULF:						
FLORIDA, WEST COAST . . .	14,786	1,076	(1)	(1)	-	-
ALABAMA	1,407	144	-	-	-	-
MISSISSIPPI	2,027	193	-	-	-	-
LOUISIANA	10,254	928	90	79	-	-
TEXAS	5,525	509	-	-	-	-
TOTAL	33,999	2,850	90	79	-	-
PACIFIC COAST:						
ALASKA.	-	-	-	-	9,696	1,414
WASHINGTON.	-	-	-	-	18,468	3,405
OREGON.	-	-	-	-	14,929	3,313
CALIFORNIA.	-	-	-	-	15,415	3,945
TOTAL	-	-	-	-	58,508	12,077
GRAND TOTAL	145,410	10,317	2,675	1,119	58,508	12,077

AREA AND STATE	GREEN		KING		ROCK	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	-	-	-	-	1,571	90
NEW HAMPSHIRE	41	5	-	-	20	1
MASSACHUSETTS	4	1	-	-	27	2
RHODE ISLAND.	4	1	-	-	130	16
CONNECTICUT	3	(1)	-	-	-	-
TOTAL	52	7	-	-	1,748	109
MIDDLE ATLANTIC, NEW JERSEY, TOTAL.	-	-	-	-	54	3
PACIFIC COAST:						
ALASKA.	-	-	52,061	13,190	-	-
CALIFORNIA.	-	-	-	-	538	60
TOTAL	-	-	52,061	13,190	538	60
GRAND TOTAL	52	7	52,061	13,190	2,340	172

SEE FOOTNOTE AT END OF TABLE.

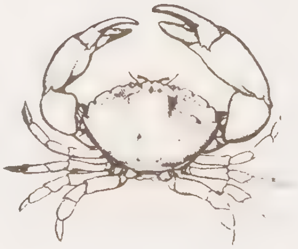
(CONTINUED ON NEXT PAGE)

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF CRAB LANDINGS, 1970 - Continued

AREA AND STATE	SNOW		STONE		OTHER		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:								
MAINE	-	-	-	-	-	-	1,571	90
NEW HAMPSHIRE	-	-	-	-	-	-	61	6
MASSACHUSETTS	-	-	-	-	-	-	31	3
RHODE ISLAND.	-	-	-	-	-	-	134	17
CONNECTICUT	-	-	-	-	-	-	3	(1)
TOTAL	-	-	-	-	-	-	1,800	116
MIDDLE ATLANTIC:								
NEW JERSEY.	-	-	-	-	-	-	838	124
DELAWARE.	-	-	-	-	-	-	610	108
TOTAL	-	-	-	-	-	-	1,448	232
CHESAPEAKE:								
MARYLAND.	-	-	-	-	-	-	26,515	2,757
VIRGINIA.	-	-	-	-	-	-	43,326	2,726
TOTAL	-	-	-	-	-	-	69,841	5,483
SOUTH ATLANTIC:								
NORTH CAROLINA.	-	-	-	-	-	-	20,940	1,261
SOUTH CAROLINA.	-	-	-	-	-	-	6,950	455
GEORGIA	-	-	-	-	-	-	7,092	428
FLORIDA, EAST COAST . . .	-	-	112	70	-	-	7,891	721
TOTAL	-	-	112	70	-	-	42,873	2,865
GULF:								
FLORIDA, WEST COAST . . .	-	-	1,502	770	-	-	16,288	1,846
ALABAMA	-	-	-	-	-	-	1,407	144
MISSISSIPPI	-	-	-	-	-	-	2,027	193
LOUISIANA	-	-	-	-	-	-	10,344	1,007
TEXAS	-	-	-	-	-	-	5,525	509
TOTAL	-	-	1,502	770	-	-	35,591	3,699
PACIFIC COAST:								
ALASKA.	14,473	1,417	-	-	-	-	76,230	16,021
WASHINGTON.	-	-	-	-	-	-	18,468	3,405
OREGON.	-	-	-	-	-	-	14,929	3,313
CALIFORNIA.	-	-	-	-	-	-	15,953	4,005
TOTAL	14,473	1,417	-	-	-	-	125,580	26,744
HAWAII, TOTAL	-	-	-	-	85	99	85	99
GRAND TOTAL	14,473	1,417	1,614	840	85	99	277,218	9,238

1/ LESS THAN 500 POUNDS OR $500.



STONE CRAB

SUMMARY OF CRAB LANDINGS OF CATCH BY GEAR, 1970

GEAR	BLUE				DUNGENESS	
	HARD		SOFT AND PEELER			
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES, COMMON	16	1	-	-	-	-
OTTER TRAWLS.	9,880	584	45	17	24	7
POUND NETS.	1,165	65	300	126	-	-
POTS.	104,754	7,440	578	232	58,484	12,070
LINES, TROT WITH BAITS. . .	18,066	1,547	103	42	-	-
DIP NETS.	838	75	74	37	-	-
SCRAPES	133	11	1,529	628	-	-
DREDGES	10,558	594	-	-	-	-
BRUSH TRAPS	-	-	37	33	-	-
BY HAND	-	-	9	4	-	-
TOTAL	145,410	10,317	2,675	1,119	58,508	12,077

GEAR	GREEN		KING		ROCK	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
OTTER TRAWLS.	-	-	-	-	54	3
POTS.	52	7	52,061	13,190	2,286	169
TOTAL	52	7	52,061	13,190	2,340	172

GEAR	SNOW		STONE	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
POTS, TOTAL	14,473	1,417	1,614	840

GEAR	OTHER		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
HAUL SEINES, COMMON	(1)	(1)	16	1
OTTER TRAWLS.	-	-	10,003	611
POUND NETS.	-	-	1,465	191
POTS.	41	47	234,343	35,412
LINES, TROT WITH BAITS. . .	-	-	18,169	1,589
DIP NETS.	-	-	912	112
LIFT NETS	41	49	41	49
SCRAPES	-	-	1,662	639
DREDGES	-	-	10,558	594
BRUSH TRAPS	-	-	37	33
BY HAND	-	-	9	4
UNCLASSIFIED.	3	3	3	3
TOTAL	85	99	277,218	39,238

1/ LESS THAN 500 POUNDS OR $500.

DUNGENESS CRAB

REVIEW OF CERTAIN MAJOR FISHERIES

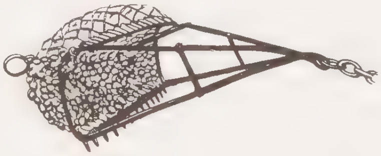
U.S. OYSTER FISHERY, 1970

The U.S. oyster fishery yielded 53.6 million pounds of meats worth $29.5 million--an increase of 1.4 million pounds and $1.9 million compared with 1969. Landings increased in all areas except the South Atlantic States and the Gulf States. In the South Atlantic States landings of 1.6 million pounds declined 11 percent compared with 1969. Gulf States landings of 17.7 million pounds declined 10 percent--reflecting the damage inflicted by hurricane Camille in 1969.

The Chesapeake States led in production with 24.7 million pounds of oyster meats, followed by the Gulf States, 17.7 million, and the Pacific Coast States, 8.0 million pounds. The Chesapeake and Gulf States accounted for 79 percent of the landings.

Dredges took 29.8 million pounds (56 percent) of the oyster landings, and tongs, 23.2 million (43 percent). The rest was taken with rakes and forks, or gathered by hand.

In Section 13 of this digest is a table which gives the volume of the bushel measures used for oysters in the various Atlantic and Gulf States and the average yield per bushel. Supplementary shellfish tables appear after the summary tables for each Atlantic and Gulf regional section.



SUMMARY OF OYSTER DREDGE OPERATING UNITS, 1970

ITEM	NEW ENGLAND			MIDDLE ATLANTIC			
	MASSACHUSETTS	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION	NEW YORK	NEW JERSEY	DELAWARE	TOTAL, EXCLUSIVE OF DUPLICATION
				NUMBER			
FISHERMEN:							
ON VESSELS.	-	19	19	48	112	35	183
ON BOATS AND SHORE. . . .	10	-	10	-	15	2	15
TOTAL FISHERMEN . . .	10	19	29	48	127	37	198
VESSELS, MOTOR:							
5 - 9 TONS.	-	-	-	-	2	-	2
10 - 19 TONS.	-	4	4	2	3	1	6
20 - 29 TONS.	-	1	1	-	1	1	2
30 - 39 TONS.	-	2	2	2	4	-	6
40 - 49 TONS.	-	1	1	1	1	2	4
50 - 59 TONS.	-	-	-	3	3	1	6
60 - 69 TONS.	-	-	-	2	1	-	3
TOTAL VESSELS	-	8	8	10	15	5	29
TOTAL GROSS TONNAGE .	-	199	199	419	481	174	1,021
BOATS, MOTOR.	4	-	4	-	9	1	6
GEAR:							
NUMBER.	4	14	18	18	40	10	66
YARDS AT MOUTH.	4	20	24	27	40	14	79

(CONTINUED ON NEXT PAGE)

SUMMARY OF OYSTER DREDGE OPERATING UNITS, 1970 - Continued

ITEM	CHESAPEAKE			SOUTH ATLANTIC			GULF	
	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION	NORTH CAROLINA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION	ALABAMA	MISSISSIPPI
	NUMBER							
FISHERMEN:								
ON VESSELS	280	354	634	54	-	54	13	268
ON BOATS AND SHORE	48	244	292	119	4	123	-	68
TOTAL FISHERMEN . . .	328	598	926	173	4	177	13	336
VESSELS, MOTOR:								
5 - 9 TONS	24	105	129	26	-	26	-	3
10 - 19 TONS	25	35	60	7	-	7	2	29
20 - 29 TONS	4	6	10	1	-	1	-	30
30 - 39 TONS	2	2	4	-	-	-	1	14
40 - 49 TONS	-	1	1	-	-	-	-	5
TOTAL VESSELS	55	149	204	34	-	34	3	81
TOTAL GROSS TONNAGE .	638	1,468	2,106	296	-	296	54	1,753
BOATS, MOTOR	21	129	150	109	2	111	-	26
GEAR:								
NUMBER	122	324	446	143	4	147	6	214
YARDS AT MOUTH	148	367	515	195	3	198	7	259

ITEM	GULF - CONTINUED			PACIFIC			
	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER						
FISHERMEN:							
ON VESSELS	640	376	1,149	51	5	-	56
ON BOATS AND SHORE	383	249	700	12	-	14	26
TOTAL FISHERMEN . . .	1,023	625	1,849	63	5	14	82
VESSELS, MOTOR:							
5 - 9 TONS	25	20	48	-	-	-	-
10 - 19 TONS	103	92	210	11	1	-	12
20 - 29 TONS	67	36	114	6	1	-	7
30 - 39 TONS	29	10	42	4	-	-	4
40 - 49 TONS	7	5	12	2	-	-	2
50 - 59 TONS	2	2	3	-	-	-	-
TOTAL VESSELS	233	165	429	23	2	-	25
TOTAL GROSS TONNAGE .	4,602	2,904	8,077	542	35	-	577
BOATS, MOTOR	212	140	378	6	-	7	13
GEAR:							
NUMBER	837	305	1,301	56	4	7	67
YARDS AT MOUTH	1,001	305	1,505	112	8	7	127

SUMMARY OF OYSTER TONG OPERATING UNITS, 1970

ITEM	NEW ENGLAND				MIDDLE ATLANTIC, NEW JERSEY
	MASSACHUSETTS	RHODE ISLAND	CONNECTICUT	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER				
FISHERMEN, ON BOATS AND SHORE	27	7	1	35	107
BOATS:					
MOTOR	18	7	1	26	83
OTHER	2	-	-	2	-
GEAR, NUMBER	27	7	1	35	107

ITEM	CHESAPEAKE			SOUTH ATLANTIC				
	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER							
FISHERMEN:								
ON VESSELS	468	637	1,105	-	-	-	-	-
ON BOATS AND SHORE	3,719	1,800	5,519	246	112	20	38	416
TOTAL FISHERMEN	4,187	2,437	6,624	246	112	20	38	416
VESSELS, MOTOR:								
5 - 9 TONS	339	262	601	-	-	-	-	-
10 - 19 TONS	86	37	123	-	-	-	-	-
30 - 39 TONS	1	-	1	-	-	-	-	-
TOTAL VESSELS	426	299	725	-	-	-	-	-
GROSS TONNAGE	3,485	2,300	5,785	-	-	-	-	-
BOATS:								
MOTOR	3,275	1,286	4,561	246	112	20	38	416
OTHER	-	-	-	-	-	10	-	10
GEAR, NUMBER	4,263	2,437	6,700	246	112	20	38	416

ITEM	GULF						PACIFIC, CALIFORNIA	GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION		
	NUMBER							
FISHERMEN:								
ON VESSELS	29	-	-	-	-	29	-	1,134
ON BOATS AND SHORE	644	536	472	139	33	1,824	36	7,937
TOTAL FISHERMEN	673	536	472	139	33	1,853	36	9,071
VESSELS, MOTOR:								
5 - 9 TONS	3	-	-	-	-	3	-	604
10 - 19 TONS	10	-	-	-	-	10	-	133
30 - 39 TONS	1	-	-	-	-	1	-	2
70 - 79 TONS	1	-	-	-	-	1	-	1
TOTAL VESSELS	15	-	-	-	-	15	-	740
GROSS TONNAGE	245	-	-	-	-	245	-	6,030
BOATS:								
MOTOR	513	283	468	95	33	1,392	18	6,496
OTHER	-	33	-	2	-	35	-	45
GEAR, NUMBER	673	536	470	139	33	1,851	36	9,145

REVIEW OF CERTAIN MAJOR FISHERIES

SUMMARY OF OYSTER LANDINGS, 1970

AREA AND STATE	DREDGES		TONGS		RAKES	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MASSACHUSETTS	27	85	23	58	4	10
RHODE ISLAND	-	-	7	9	-	-
CONNECTICUT	125	228	(1)	(1)	-	-
TOTAL	152	313	30	67	4	10
MIDDLE ATLANTIC:						
NEW YORK	514	1,068	-	-	6	6
NEW JERSEY	641	516	36	41	-	-
DELAWARE	216	133	-	-	-	-
TOTAL	1,371	1,717	36	41	6	6
CHESAPEAKE:						
MARYLAND	2,598	1,735	14,027	7,918	-	-
VIRGINIA	4,433	3,018	3,610	2,409	-	-
TOTAL	7,031	4,753	17,637	10,327	-	-
SOUTH ATLANTIC:						
NORTH CAROLINA	156	111	150	107	63	42
SOUTH CAROLINA	-	-	497	305	-	-
GEORGIA	-	-	120	66	-	-
FLORIDA, EAST COAST	20	12	137	81	-	-
TOTAL	176	123	904	559	63	42
GULF:						
FLORIDA, WEST COAST	-	-	3,560	1,469	-	-
ALABAMA	6	4	274	154	-	-
MISSISSIPPI	508	219	40	19	-	-
LOUISIANA	8,370	3,516	237	102	-	-
TEXAS	4,653	2,031	21	9	-	-
TOTAL	13,537	5,770	4,132	1,753	-	-
PACIFIC COAST:						
WASHINGTON:						
PACIFIC	6,506	2,369	-	-	-	-
WESTERN	58	173	-	-	-	-
TOTAL	6,564	2,542	-	-	-	-
OREGON:						
PACIFIC	306	135	-	-	-	-
WESTERN	1	3	-	-	-	-
TOTAL	307	138	-	-	-	-
CALIFORNIA:						
EASTERN	-	-	17	49	-	-
PACIFIC	687	618	416	375	-	-
TOTAL	687	618	433	424	-	-
TOTAL PACIFIC COAST STATES	7,558	3,298	433	424	-	-
GRAND TOTAL	29,825	15,974	23,172	13,171	73	58

AREA AND STATE	FORKS		BY HAND		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MASSACHUSETTS	4	13	-	-	58	166
RHODE ISLAND	-	-	-	-	7	9
CONNECTICUT	-	-	-	-	125	228
TOTAL	4	13	-	-	190	403
MIDDLE ATLANTIC:						
NEW YORK	-	-	-	-	520	1,074
NEW JERSEY	-	-	-	-	677	557
DELAWARE	-	-	-	-	216	133
TOTAL	-	-	-		1,413	1,764

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF OYSTER LANDINGS, 1970 - Continued

AREA AND STATE	FORKS		BY HAND		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
CHESAPEAKE:						
MARYLAND	-	-	-	-	16,625	9,653
VIRGINIA	-	-	-	-	8,043	5,427
TOTAL	-	-	-	-	24,668	15,080
SOUTH ATLANTIC:						
NORTH CAROLINA	-	-	14	9	383	269
SOUTH CAROLINA	-	-	355	180	852	485
GEORGIA	-	-	59	34	179	100
FLORIDA, EAST COAST	-	-	55	27	212	120
TOTAL	-	-	483	250	1,626	974
GULF:						
FLORIDA, WEST COAST	-	-	13	6	3,573	1,475
ALABAMA	-	-	-	-	279	158
MISSISSIPPI	-	-	-	-	548	238
LOUISIANA	-	-	32	13	8,639	3,631
TEXAS	-	-	(1)	(1)	4,675	2,040
TOTAL	-	-	45	19	17,714	7,542
PACIFIC COAST:						
WASHINGTON:						
PACIFIC	-	-	-	-	6,506	2,369
WESTERN	-	-	-	-	58	173
TOTAL	-	-	-	-	6,564	2,542
OREGON:						
PACIFIC	-	-	-	-	306	135
WESTERN	-	-	-	-	1	3
TOTAL	-	-	-	-	307	138
CALIFORNIA:						
EASTERN	-	-	-	-	17	49
PACIFIC	-	-	-	-	1,103	993
TOTAL	-	-	-	-	1,120	1,042
TOTAL PACIFIC COAST STATES	-	-	-	-	7,991	3,722
GRAND TOTAL	4	13	528	269	53,602	29,485

1/ LESS THAN 500 POUNDS OR $500.

NOTE:--LANDINGS BY HAND IN WASHINGTON AND OREGON HAVE BEEN INCLUDED WITH LANDINGS BY DREDGES; IN CALIFORNIA, THEY HAVE BEEN INCLUDED WITH TONGS.

SUMMARY OF ATLANTIC AND GULF OYSTER LANDINGS, 1970

AREA AND STATE	PUBLIC		PRIVATE	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:				
MASSACHUSETTS	6	18	52	148
RHODE ISLAND.	7	9	-	-
CONNECTICUT	(1)	(1)	125	228
TOTAL	13	27	177	376
MIDDLE ATLANTIC:				
NEW YORK.	6	6	514	1,068
NEW JERSEY.	30	33	647	524
DELAWARE.	-	-	216	133
TOTAL	36	39	1,377	1,725
CHESAPEAKE:				
MARYLAND.	15,946	9,061	679	592
VIRGINIA.	3,110	2,076	4,933	3,351
TOTAL	19,056	11,137	5,612	3,943
SOUTH ATLANTIC:				
NORTH CAROLINA.	298	207	85	62
SOUTH CAROLINA.	-	-	852	485
GEORGIA	-	-	179	100
FLORIDA, EAST COAST . . .	19	11	193	109
TOTAL	317	218	1,309	756
GULF:				
FLORIDA, WEST COAST . . .	3,369	1,389	204	86
ALABAMA	246	139	33	19
MISSISSIPPI	459	202	89	36
LOUISIANA	653	268	7,986	3,363
TEXAS	4,516	1,954	159	86
TOTAL	9,243	3,952	8,471	3,590
GRAND TOTAL	28,665	15,373	16,946	10,390

1/ LESS THAN 500 POUNDS OR $500.

SUMMARY OF OYSTER LANDINGS BY SPECIES, 1970

SPECIES	THOUSAND POUNDS	THOUSAND DOLLARS
EASTERN:		
PUBLIC.	28,665	15,373
PRIVATE 1/.	16,963	10,439
TOTAL	45,628	25,812
PACIFIC	7,915	3,497
WESTERN	59	176
GRAND TOTAL	53,602	29,485

1/ EASTERN PRIVATE INCLUDES 17,000 POUNDS OF OYSTERS VALUED AT $49,000 HARVESTED IN CALIFORNIA.

REVIEW OF CERTAIN MAJOR FISHERIES

U.S. SHRIMP FISHERY, 1970

Shrimp landings were a record 367.5 million pounds (heads-on) worth a record $129.8 million--an increase of 48.9 million pounds and $5.3 million compared with 1969. Shrimp retained its position as the most valuable U.S. fishery. The exvessel value of landings increased in all areas except the South Atlantic States.

Compared with 1969, the shrimp harvest declined in the New England and South Atlantic States. This decline was offset, however, by record landings in the Pacific Coast States and near-record landings in the Gulf States. For the fourth consecutive year landings in the Gulf States exceeded 200 million pounds. The Gulf States accounted for 230.5 million pounds (63 percent of the total); Pacific Coast, 92.9 million (25 percent); New England, 23.5 million (6 percent); and South Atlantic, 20.6 million pounds (6 percent). A negligible amount was taken in the Mississippi River States and in Hawaii.

The otter trawl fleet took 366.3 million pounds--99.7 percent of the total. An additional 1.2 million pounds were taken by bag nets, beam trawls, pots and traps, and brush traps.

The U.S. otter trawl fishery employed 19,179 fishermen on 4,614 vessels and 5,526 motor boats. Texas led in number of vessels (5 net tons or more) with 1,723.

SUMMARY OF SHRIMP LANDINGS, 1970

AREA AND STATE	BAG NETS		BEAM TRAWLS		OTTER TRAWLS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:						
MAINE	-	-	-	-	16,994	3,509
NEW HAMPSHIRE	-	-	-	-	120	19
MASSACHUSETTS	-	-	-	-	6,398	1,167
TOTAL	-	-	-	-	23,512	4,695
SOUTH ATLANTIC:						
NORTH CAROLINA	136	72	-	-	4,918	2,421
SOUTH CAROLINA	-	-	-	-	4,951	2,879
GEORGIA	-	-	-	-	5,996	3,371
FLORIDA, EAST COAST	-	-	-	-	4,608	2,645
TOTAL	136	72	-	-	20,473	11,316
GULF:						
FLORIDA, WEST COAST	-	-	-	-	26,564	13,108
ALABAMA	-	-	-	-	15,031	8,040
MISSISSIPPI	-	-	-	-	9,604	3,810
LOUISIANA	-	-	-	-	90,939	34,612
TEXAS	-	-	-	-	88,327	48,614
TOTAL	-	-	-	-	230,465	108,184
PACIFIC:						
ALASKA	-	-	925	46	73,267	2,930
WASHINGTON	-	-	12	6	926	107
OREGON	-	-	-	-	13,572	1,793
CALIFORNIA	-	-	-	-	4,072	585
TOTAL	-	-	937	52	91,837	5,415
GRAND TOTAL	136	72	937	52	366,287	129,610

SEE FOOTNOTE AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

SUMMARY OF SHRIMP LANDINGS, 1970 - Continued

AREA AND STATE	POTS AND TRAPS		BRUSH TRAPS	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND, MAINE, TOTAL.	10	2	-	-
GULF, LOUISIANA, TOTAL.	-	-	9	2
PACIFIC:				
ALASKA.	64	3	-	-
WASHINGTON.	21	13		
TOTAL	85	16	-	-
MISSISSIPPI RIVER AND TRIBUTARIES, LOUISIANA, TOTAL.	2	(1)	-	-
GRAND TOTAL	97	18	9	2

AREA AND STATE	UNCLASSIFIED		TOTAL	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
NEW ENGLAND:				
MAINE	-	-	17,004	3,511
NEW HAMPSHIRE	-	-	120	19
MASSACHUSETTS	-	-	6,398	1,167
TOTAL	-	-	23,522	4,697
SOUTH ATLANTIC:				
NORTH CAROLINA.	-	-	5,054	2,493
SOUTH CAROLINA.	-	-	4,951	2,879
GEORGIA	-	-	5,996	3,371
FLORIDA, EAST COAST . . .	-	-	4,608	2,645
TOTAL	-	-	20,609	11,388
GULF:				
FLORIDA, WEST COAST . . .	-	-	26,564	13,108
ALABAMA	-	-	15,031	8,040
MISSISSIPPI	-	-	9,604	3,810
LOUISIANA	-	-	90,948	34,614
TEXAS	-	-	88,327	48,614
TOTAL	-	-	230,474	108,186
PACIFIC:				
ALASKA.	-	-	74,256	2,979
WASHINGTON.	-	-	959	126
OREGON.	-	-	13,572	1,793
CALIFORNIA.	-	-	4,072	585
TOTAL	-	-	92,859	5,483
MISSISSIPPI RIVER AND TRIBUTARIES, LOUISIANA, TOTAL.	-	-	2	(1)
HAWAII, TOTAL	2	4	2	4
GRAND TOTAL	2	4	367,468	129,758

1/ LESS THAN $500.

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1970

GROSS TONNAGE	NEW ENGLAND			SOUTH ATLANTIC				
	MAINE	MASSACHUSETTS	TOTAL, EXCLUSIVE OF DUPLICATION	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	FLORIDA, EAST COAST	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER							
5 - 9	4	-	4	98	21	9	-	123
10 - 19	25	6	31	63	52	31	9	144
20 - 29	37	7	44	43	42	54	16	130
30 - 39	23	12	31	41	59	76	32	157
40 - 49	14	12	24	47	46	47	42	132
50 - 59	5	4	8	24	18	29	37	73
60 - 69	5	6	11	15	24	30	42	82
70 - 79	4	6	8	13	8	12	23	35
80 - 89	1	3	4	7	10	6	12	28
90 - 99	2	-	2	6	8	10	21	36
100 - 109	2	-	2	1	-	2	2	4
110 - 119	-	2	2	1	-	-	1	2
120 - 129	-	1	1	1	-	-	-	1
130 - 139	-	-	-	-	-	1	-	1
140 - 149	-	1	1	-	-	-	1	1
160 - 169	2	-	2	-	-	-	-	-
TOTAL VESSELS	124	60	175	360	288	307	238	949
TOTAL GROSS TONNAGE	4,363	3,034	6,969	10,794	10,697	12,744	13,380	35,959

GROSS TONNAGE	GULF						SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION
	FLORIDA, WEST COAST	ALABAMA	MISSISSIPPI	LOUISIANA	TEXAS	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER						
5 - 9	26	25	14	74	43	165	288
10 - 19	72	89	81	278	235	664	808
20 - 29	29	46	98	192	82	359	485
30 - 39	87	44	63	143	84	301	434
40 - 49	103	38	50	161	111	322	412
50 - 59	74	31	39	119	118	241	288
60 - 69	147	25	31	199	296	450	494
70 - 79	78	22	15	96	166	233	249
80 - 89	59	21	10	67	116	163	171
90 - 99	97	41	20	159	257	335	352
100 - 109	11	6	6	52	70	87	89
110 - 119	4	5	5	28	44	58	60
120 - 129	10	15	9	45	39	71	72
130 - 139	11	35	6	53	39	88	89
140 - 149	1	2	3	12	10	20	20
150 - 159	3	1	1	8	6	11	11
160 - 169	-	2	-	3	4	6	6
170 - 179	-	-	-	1	1	2	2
190 - 199	1	-	1	2	1	2	2
220 - 229	-	-	-	1	1	1	1
TOTAL VESSELS	813	448	452	1,693	1,723	3,579	4,333
TOTAL GROSS TONNAGE	48,323	24,904	19,965	94,173	112,102	192,442	216,206

(CONTINUED ON NEXT PAGE)

SUMMARY OF SHRIMP OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1970 - Continued

GROSS TONNAGE	PACIFIC					GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION	
	NUMBER					
5 - 9	1	-	-	-	1	293
10 - 19	3	1	1	3	8	845
20 - 29	-	5	19	9	23	552
30 - 39	5	3	13	3	19	481
40 - 49	3	1	10	5	15	452
50 - 59	4	1	5	2	11	307
60 - 69	5	-	4	2	9	516
70 - 79	1	-	1	1	3	260
80 - 89	2	-	2	-	4	179
90 - 99	5	-	-	1	6	361
100 - 109	2	-	[illegible]	-	2	[illegible]
110 - 119	-	-	-	-	-	6
120 - 129	1	-	-	-	[illegible]	74
130 - 139	-	-	1	-	1	91
140 - 149	-	-	-	-	-	1
150 - 159	1	-	-	-	1	[illegible]
160 - 169	-	-	-	-	-	[illegible]
170 - 179	-	-	-	-	-	1
190 - 199	1	-	[illegible]	-	[illegible]	4
220 - 229	-	-	-	-	-	1
TOTAL VESSELS	34	11	58	26	100	4,614
TOTAL GROSS TONNAGE .	[illegible],311	351	[illegible],596	1,00[illegible]	5,[illegible]0	[illegible]

SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1970

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL		
	NUMBER				YARDS AT MOUTH
NEW ENGLAND:					
MAINE	98	493	[illegible]	[illegible]	[illegible]
NEW HAMPSHIRE	[illegible]	[illegible]	-	[illegible]	[illegible]
TOTAL, EXCLUSIVE OF DUPLICATION . . .	101	[illegible]	[illegible]	[illegible]	4,[illegible]
SOUTH ATLANTIC:					
NORTH CAROLINA.	430	[illegible]34	[illegible]97	4[illegible]0	4,3[illegible]5
SOUTH CAROLINA.	[illegible]6	[illegible]7	[illegible]	[illegible]	178
GEORGIA	267	15[illegible]	[illegible]	[illegible]	[illegible]
FLORIDA, EAST COAST . . .	4	[illegible]	-	[illegible]	[illegible]
TOTAL, EXCLUSIVE OF DUPLICATION . . .	727	404	[illegible]	[illegible]	[illegible]
GULF:					
FLORIDA, WEST COAST . . .	76	97	[illegible]4	76	[illegible]34
ALABAMA	149	17[illegible]	[illegible]7	149	[illegible]
MISSISSIPPI	600	[illegible]00	[illegible]	600	[illegible]
LOUISIANA	[illegible]	[illegible],791	1,[illegible]60	[illegible]	[illegible]
TEXAS	[illegible]20	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL, EXCLUSIVE OF DUPLICATION . . .	4,49[illegible]	[illegible]	[illegible]	[illegible],497	[illegible]
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION.	[illegible]	4,17[illegible]	[illegible]	[illegible]	[illegible]
PACIFIC:					
ALASKA.		6	-		[illegible]
CALIFORNIA.	1	3	-		[illegible]
TOTAL, EXCLUSIVE OF DUPLICATION . . .	[illegible]	9	-		[illegible]
GRAND TOTAL, EXCLUSIVE OF DUPLICATION.	5,[illegible]	4,689	2,640	[illegible]	[illegible]

(CONTINUED ON NEXT PAGE)

SUMMARY OF SHRIMP OTTER TRAWL OPERATING UNITS, 1970 - Continued

AREA AND STATE	VESSEL FISHERY				
	VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:					
MAINE	124	4,363	274	124	2,337
MASSACHUSETTS	60	3,034	253	60	1,553
TOTAL, EXCLUSIVE OF DUPLICATION	175	6,969	508	175	3,744
SOUTH ATLANTIC:					
NORTH CAROLINA	360	10,794	795	646	10,770
SOUTH CAROLINA	288	10,697	590	566	10,179
GEORGIA	307	12,744	615	606	9,696
FLORIDA, EAST COAST	238	13,380	519	473	7,636
TOTAL, EXCLUSIVE OF DUPLICATION	949	35,959	2,025	1,809	30,463
GULF:					
FLORIDA, WEST COAST	813	48,323	2,033	1,550	26,694
ALABAMA	448	24,904	1,143	773	14,543
MISSISSIPPI	452	19,965	1,127	711	12,790
LOUISIANA	1,693	94,173	4,450	2,981	52,459
TEXAS	1,723	112,102	4,737	3,134	56,207
TOTAL, EXCLUSIVE OF DUPLICATION	3,579	192,442	9,386	6,193	109,406
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION	4,333	216,206	10,875	7,489	140,889
PACIFIC:					
ALASKA	34	2,311	102	34	510
WASHINGTON	11	351	34	11	209
OREGON	58	2,596	194	62	1,175
CALIFORNIA	26	1,008	78	26	702
TOTAL, EXCLUSIVE OF DUPLICATION	106	5,380	467	109	2,135
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	4,614	228,555	11,850	7,773	146,768

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
	NUMBER			YARDS AT MOUTH
NEW ENGLAND:				
MAINE	422	876	422	6,807
NEW HAMPSHIRE	3	9	3	62
MASSACHUSETTS	60	253	60	1,553
TOTAL, EXCLUSIVE OF DUPLICATION	476	1,119	476	8,276
SOUTH ATLANTIC:				
NORTH CAROLINA	790	1,326	1,076	15,155
SOUTH CAROLINA	314	642	593	10,657
GEORGIA	574	1,003	576	13,154
FLORIDA, EAST COAST	242	527	477	7,698
TOTAL, EXCLUSIVE OF DUPLICATION	1,676	3,004	2,541	38,846
GULF:				
FLORIDA, WEST COAST	889	2,154	1,626	27,678
ALABAMA	597	1,394	922	15,528
MISSISSIPPI	1,052	1,822	1,311	18,143
LOUISIANA	4,945	8,501	6,233	98,503
TEXAS	2,143	5,349	3,554	61,382
TOTAL, EXCLUSIVE OF DUPLICATION	8,074	15,116	10,690	167,897
SOUTH ATLANTIC AND GULF, TOTAL, EXCLUSIVE OF DUPLICATION	9,555	17,584	12,718	207,763
PACIFIC:				
ALASKA	36	108	36	540
WASHINGTON	11	34	11	209
OREGON	58	194	62	1,175
CALIFORNIA	27	81	27	729
TOTAL, EXCLUSIVE OF DUPLICATION	109	476	112	2,192
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	10,140	19,179	13,306	218,231

U.S. FISH OTTER TRAWL FLEET, 1970

The following tables contain information on the U.S. fish otter trawl fleet. The data include detailed information on the operating units in this fishery and a breakdown of vessels by area, State, and gross tonnage. The fish otter trawl fleet employed 4,723 fishermen on 1,142 vessels (craft of 5 net tons or more) and 175 boats. Sixty-nine vessels used two trawls, which brought the total number of trawls in use to 1,386.

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1970

GROSS TONNAGE	NEW ENGLAND				
	MAINE	MASSA-CHUSETTS	RHODE ISLAND	CONNECT-ICUT	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER				
5 - 9	4	1	-	2	7
10 - 19	23	32	8	7	67
20 - 29	35	34	14	2	80
30 - 39	21	42	10	5	68
40 - 49	12	27	12	-	44
50 - 59	6	22	7	1	30
60 - 69	5	32	5	-	37
70 - 79	8	33	4	-	37
80 - 89	1	21	6	-	23
90 - 99	-	14	5	-	19
100 - 109	3	11	1	-	13
110 - 119	2	16	2	-	17
120 - 129	-	9	-	-	9
130 - 139	-	10	-	-	10
140 - 149	-	3	-	-	3
150 - 159	-	9	-	-	9
160 - 169	3	3	-	-	5
170 - 179	1	8	-	-	8
180 - 189	-	-	1	-	1
190 - 199	4	10	2	-	13
210 - 219	-	1	-	-	[illegible]
220 - 229	-	1	-	-	1
230 - 239	-	2	-	-	2
240 - 249	1	-	-	-	1
290 - 299	2	-	-	-	2
300 - 309	2	-	-	-	2
310 - 319	3	1	-	-	4
320 - 329	2	-	-	-	2
450 - 459	1	-	-	-	1
1590 - 1599	-	1	-	-	1
TOTAL VESSELS	139	343	77	17	517
TOTAL GROSS TONNAGE .	9,233	26,686	4,174	366	36,542

(CONTINUED ON NEXT PAGE)

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1970 - Continued

GROSS TONNAGE	MIDDLE ATLANTIC			CHESAPEAKE		
	NEW YORK	NEW JERSEY	TOTAL, EXCLUSIVE OF DUPLICATION	MARYLAND	VIRGINIA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER					
5 - 9	3	6	9	-	-	-
10 - 19	37	11	47	2	5	6
20 - 29	31	13	44	5	5	9
30 - 39	21	14	35	4	5	7
40 - 49	6	17	23	4	4	6
50 - 59	4	15	18	5	7	9
60 - 69	-	8	8	1	4	4
70 - 79	5	10	15	1	8	8
80 - 89	-	5	5	-	2	2
90 - 99	1	2	3	-	1	1
100 - 109	2	-	2	-	2	2
110 - 119	1	2	3	-	4	4
120 - 129	1	2	2	1	2	2
130 - 139	-	1	1	-	1	1
140 - 149	1	1	1	-	2	2
150 - 159	1	1	2	-	1	1
160 - 169	-	1	1	-	1	1
190 - 199	1	-	1	-	3	3
TOTAL VESSELS	115	109	220	23	57	68
TOTAL GROSS TONNAGE	3,904	5,563	9,129	1,014	4,300	4,680

GROSS TONNAGE	SOUTH ATLANTIC				GULF		
	NORTH CAROLINA	SOUTH CAROLINA	GEORGIA	TOTAL, EXCLUSIVE OF DUPLICATION	MISSISSIPPI	LOUISIANA	TOTAL, EXCLUSIVE OF DUPLICATION
	NUMBER						
5 - 9	3	-	-	3	-	-	-
10 - 19	4	-	-	4	-	2	2
20 - 29	8	-	-	8	-	3	3
30 - 39	16	-	1	17	1	3	4
40 - 49	24	2	-	24	1	-	1
50 - 59	12	-	-	12	1	1	2
60 - 69	6	-	-	6	4	-	4
70 - 79	7	-	-	7	3	-	3
80 - 89	4	1	-	5	2	1	3
90 - 99	5	1	-	6	4	3	7
100 - 109	1	-	-	1	1	-	1
120 - 129	1	-	-	1	2	2	4
130 - 139	-	-	-	-	4	1	5
140 - 149	1	-	-	1	3	-	3
150 - 159	1	-	-	1	3	-	3
170 - 179	-	-	-	-	1	-	1
290 - 299	-	-	-	-	1	-	1
TOTAL VESSELS	93	4	1	96	31	16	47
TOTAL GROSS TONNAGE	4,767	62	27	4,98[illegible]	3,407	1,022	4,429

GROSS TONNAGE	PACIFIC					GREAT LAKES, TOTAL, EXCLUSIVE OF DUPLICATION	GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION		
	NUMBER						
5 - 9	-	1	-	5	6	-	25
10 - 19	2	3	1	30	36	8	166
20 - 29	-	9	9	24	38	2	169
30 - 39	1	15	8	17	41	1	165
40 - 49	2	19	18	19	52	3	150
50 - 59	2	9	6	8	25	-	82
60 - 69	3	11	3	6	22	-	77
70 - 79	1	3	3	5	12	1	67
80 - 89	-	3	2	2	6	-	39
90 - 99	1	4	2	2	9	-	42

(CONTINUED ON NEXT PAGE)

SUMMARY OF FISH OTTER TRAWL VESSELS, BY TONNAGE GROUPS, 1970 - Continued

GROSS TONNAGE	PACIFIC					GREAT LAKES, TOTAL, EXCLUSIVE OF DUPLICATION	GRAND TOTAL, EXCLUSIVE OF DUPLICATION
	ALASKA	WASHINGTON	OREGON	CALIFORNIA	TOTAL, EXCLUSIVE OF DUPLICATION		
	NUMBER						
100 - 109	-	4	-	3	7	-	22
110 - 119	-	1	-	2	3	-	26
120 - 129	1	-	-	-	1	-	17
130 - 139	-	1	-	-	1	-	17
140 - 149	-	-	-	-	-	-	8
150 - 159	1	1	-	-	2	-	16
160 - 169	-	-	-	-	-	-	6
170 - 179	-	-	-	-	-	-	9
180 - 189	-	1	1	-	2	-	3
190 - 199	1	-	1	-	2	-	17
210 - 219	-	-	-	-	-	-	1
220 - 229	-	-	-	-	-	-	1
230 - 239	-	-	-	-	-	-	2
240 - 249	-	-	-	-	-	-	1
290 - 299	-	-	-	-	-	-	3
300 - 309	-	-	-	-	-	-	2
310 - 319	-	-	-	-	-	-	4
320 - 329	-	-	-	-	-	-	2
450 - 459	-	-	-	-	-	-	1
1590 - 1599	-	1	-	-	1	-	2
TOTAL VESSELS	15	86	54	123	266	15	1,142
TOTAL GROSS TONNAGE	1,100	6,466	2,840	4,540	14,248	454	68,577

SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1970

AREA AND STATE	BOAT FISHERY				
	BOATS	FISHERMEN		OTTER TRAWLS	
		REGULAR	CASUAL		
	NUMBER				YARDS AT MOUTH
NEW ENGLAND:					
MAINE	69	85	53	69	1,080
NEW HAMPSHIRE	3	9	-	3	6
MASSACHUSETTS	7	14	-	7	112
RHODE ISLAND	4	4	3	4	68
CONNECTICUT	51	21	49	51	562
TOTAL, EXCLUSIVE OF DUPLICATION	134	133	105	134	1,884
MIDDLE ATLANTIC:					
NEW YORK	6	12	-	6	104
NEW JERSEY	2	4	-	2	24
TOTAL, EXCLUSIVE OF DUPLICATION	7	14	-	7	121
GULF, LOUISIANA, TOTAL, EXCLUSIVE OF DUPLICATION	1	2	-	1	21
PACIFIC:					
ALASKA	1	4	-	1	15
CALIFORNIA	31	93	-	31	837
TOTAL, EXCLUSIVE OF DUPLICATION	32	97	-	32	852
MISSISSIPPI RIVER, WISCONSIN, TOTAL, EXCLUSIVE OF DUPLICATION	1	4	-	1	13
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	175	250	105	175	2,891

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SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1970 - Continued

AREA AND STATE	VESSEL FISHERY				
	VESSELS		FISHERMEN	OTTER TRAWLS	
	NUMBER	GROSS TONNAGE	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:					
MAINE	139	9,233	432	139	2,905
MASSACHUSETTS	343	26,686	1,887	343	9,234
RHODE ISLAND	77	4,174	293	77	2,097
CONNECTICUT	17	366	39	17	339
TOTAL, EXCLUSIVE OF DUPLICATION	517	36,542	2,420	517	13,109
MIDDLE ATLANTIC:					
NEW YORK	115	3,904	273	115	2,677
NEW JERSEY	109	5,563	362	109	2,863
TOTAL, EXCLUSIVE OF DUPLICATION	220	9,129	635	220	5,435
CHESAPEAKE:					
MARYLAND	23	1,014	81	23	591
VIRGINIA	57	4,300	240	57	1,539
TOTAL, EXCLUSIVE OF DUPLICATION	68	4,680	321	68	1,858
SOUTH ATLANTIC:					
NORTH CAROLINA	93	4,767	283	126	2,641
SOUTH CAROLINA	4	262	10	7	178
GEORGIA	1	37	2	2	28
TOTAL, EXCLUSIVE OF DUPLICATION	96	4,982	290	133	2,794
GULF:					
MISSISSIPPI	31	3,407	93	58	1,287
LOUISIANA	16	1,022	39	23	492
TOTAL, EXCLUSIVE OF DUPLICATION	47	4,429	132	81	1,779
PACIFIC:					
ALASKA	15	1,100	60	15	225
WASHINGTON	86	6,466	333	86	1,882
OREGON	54	2,840	196	54	1,230
CALIFORNIA	123	4,540	369	123	3,321
TOTAL, EXCLUSIVE OF DUPLICATION	266	14,248	914	266	6,382
GREAT LAKES, TOTAL, EXCLUSIVE OF DUPLICATION	15	454	32	15	408
GRAND TOTAL, EXCLUSIVE OF DUPLICATION	1,142	68,577	4,368	1,211	30,551

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
	NUMBER	NUMBER	NUMBER	YARDS AT MOUTH
NEW ENGLAND:				
MAINE	208	570	208	3,985
NEW HAMPSHIRE	3	9	3	62
MASSACHUSETTS	350	1,901	350	9,346
RHODE ISLAND	81	300	81	2,165
CONNECTICUT	68	109	68	901
TOTAL, EXCLUSIVE OF DUPLICATION	651	2,658	651	14,993
MIDDLE ATLANTIC:				
NEW YORK	121	285	121	2,781
NEW JERSEY	111	366	111	2,887
TOTAL, EXCLUSIVE OF DUPLICATION	227	649	227	5,556
CHESAPEAKE:				
MARYLAND	23	81	23	591
VIRGINIA	57	240	57	1,539
TOTAL, EXCLUSIVE OF DUPLICATION	68	321	68	1,858

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SUMMARY OF FISH OTTER TRAWL OPERATING UNITS, 1970 - Continued

AREA AND STATE	TOTAL (BOAT AND VESSEL FISHERY)			
	BOATS AND VESSELS	FISHERMEN	OTTER TRAWLS	
	NUMBER			YARDS AT MOUTH
SOUTH ATLANTIC:				
NORTH CAROLINA.	93	283	126	2,641
SOUTH CAROLINA.	4	10	7	178
GEORGIA	1	2	2	28
TOTAL, EXCLUSIVE OF DUPLICATION.	96	290	133	2,794
GULF:				
MISSISSIPPI	31	93	58	1,287
LOUISIANA	17	41	24	513
TOTAL, EXCLUSIVE OF DUPLICATION.	48	134	82	1,800
PACIFIC:				
ALASKA.	16	64	16	240
WASHINGTON.	86	333	86	1,882
OREGON.	54	196	54	1,230
CALIFORNIA.	154	462	154	4,158
TOTAL, EXCLUSIVE OF DUPLICATION.	298	1,011	298	7,234
GREAT LAKES, TOTAL, EXCLUSIVE OF DUPLICATION. . . .	15	32	15	408
MISSISSIPPI RIVER, WISCONSIN, TOTAL, EXCLUSIVE OF DUPLICATION.	1	4	1	13
GRAND TOTAL, EXCLUSIVE OF DUPLICATION.	1,317	4,723	1,386	33,442

SECTION 13

STATISTICAL SURVEY PROCEDURE

"Fishery Statistics of the United States" (Statistical Digest) is prepared by the Statistics and Market News Division, National Marine Fisheries Service (NMFS); U.S. Department of Commerce, and is a continuation of a series inaugurated by predecessor organizations in the Department of Interior, Commerce, and Commerce and Labor, and the U.S. Fish Commission. The Statistical Digest contains detailed statistics and analytical textual reviews on the commercial fisheries of the United States. Included are data on the quantity and value of the commercial landings of fishery products by States, larger geographic regions and gear; and the number of persons, vessels, boats, and fishing gear engaged in the fisheries. In the sections on the Great Lakes and Mississippi River, the catch is also tabulated by water bodies. The Statistical Digest also contains data on the volume and value of processed fishery products, freezings and cold storage holdings, foreign trade, and other related information.

Following is a brief history of the statistical surveys that have been conducted in the United States and a description of the procedures used to collect the different kinds of data in the various geographical areas of the country.

History--The first comprehensive statistical study of the fisheries and fishery industries of the United States was made for the year 1880 by George Brown Goode, Assistant Director of the U.S. National Museum, and associates, with the cooperation of the Commissioner of Fisheries and the Superintendent of the Tenth Census. Data for specific fisheries or geographic areas for years prior to 1880, also were collected in the early survey and recorded in Mr. Goode's reports. The survey for 1880, however, did not include the Mississippi River and its tributaries. Periodic general surveys of a limited number of States or limited areas of the United States were made for the years from 1880 to 1907 and from 1909 to 1928. The first complete statistical canvass of the entire United States was made for 1908 by the Bureau of the Census. The next general survey of the entire United States was not made until 1931, although complete data for all areas, excluding the Mississippi River and its tributaries, were collected for 1929 and 1930. Complete data on the catch and operating units for these same sections were also collected for 1932. In the latter survey, however, lack of sufficient funds prohibited collection of data on the wholesale and manufacturing operations except those data collected as a part of the canned fishery products and byproducts survey. Various geographic areas were surveyed during the years from 1933 to 1949, inclusive. A complete survey of all sections of the country was made for 1950. Since 1951, all of the coastal areas have been canvassed annually, and catch records have been obtained for the Great Lakes area. Complete operating unit and catch data have been obtained for all areas since 1954, except that only a partial survey of the Mississippi River and its tributaries was made for 1961. Data on the wholesale and manufacturing industries were collected in all of the surveys from 1933 to 1940, inclusive. In the years from 1941 to 1949, inclusive, and in 1951, lack of experienced personnel and budgetary limitations precluded the collection of data on wholesale and manufacturing firms except for those data collected as part of the canned fishery products, industrial products, and packaged fish surveys.

The chart on page 452 indicates the years for which surveys have been made in the various sections. Since the surveys of the fisheries have varied in completeness, three legends have been used for the years shown in the chart to indicate whether complete, partial, or no surveys were conducted in the individual regions. The designation "complete survey" has been used to indicate that basic operating unit and catch data were obtained and that complete information was collected on employment in wholesale and manufacturing establishments and on the production of manufactured fishery products. The legend "partial survey" usually indicates that operating unit

STATISTICAL SURVEY PROCEDURE

and catch statistics were collected, but that no information was obtained on employment in wholesale and manufacturing establishments and that only partial data were obtained on the production of manufactured fishery products. In some instances the designation "partial survey" is used for regions in which only catch statistics were collected. The legend "no survey" indicates that a general canvass was not conducted to obtain operating unit, catch, employment in wholesale and manufacturing plants, and complete manufactured products data. Although the chart indicates that in certain regions no surveys were conducted, some information may be available on the landings at certain important ports. Likewise, information on the catch of certain species, such as menhaden, may be available as a result of data collected in connection with the annual canned fish and byproducts survey. Data on the annual production of canned fishery products and byproducts have been collected for all regions since 1921, while information has been obtained on the production of packaged fish for 1926 and annually since 1928.

A bibliography listing the various surveys made since 1880 and the publications in which the results were published appeared in Statistical Digest No. 43. "Fishery Statistics of the United States, 1956." Figures for recent years are available from NMFS in bulletin form, but data for the earlier years are available only in the Fish Commission and Bureau of Fisheries printed reports. These reports are on file in the Department of Commerce library and in many public libraries.

Field Personnel--The statistics contained in this volume have been collected by trained fishery reporting specialists of the National Marine Fisheries Service (NMFS) and, in some cases, by personnel of State fishery agencies. The fishery reporting specialists are assigned to field stations, generally in the principal port within their areas, and travel from that station to conduct their various surveys.

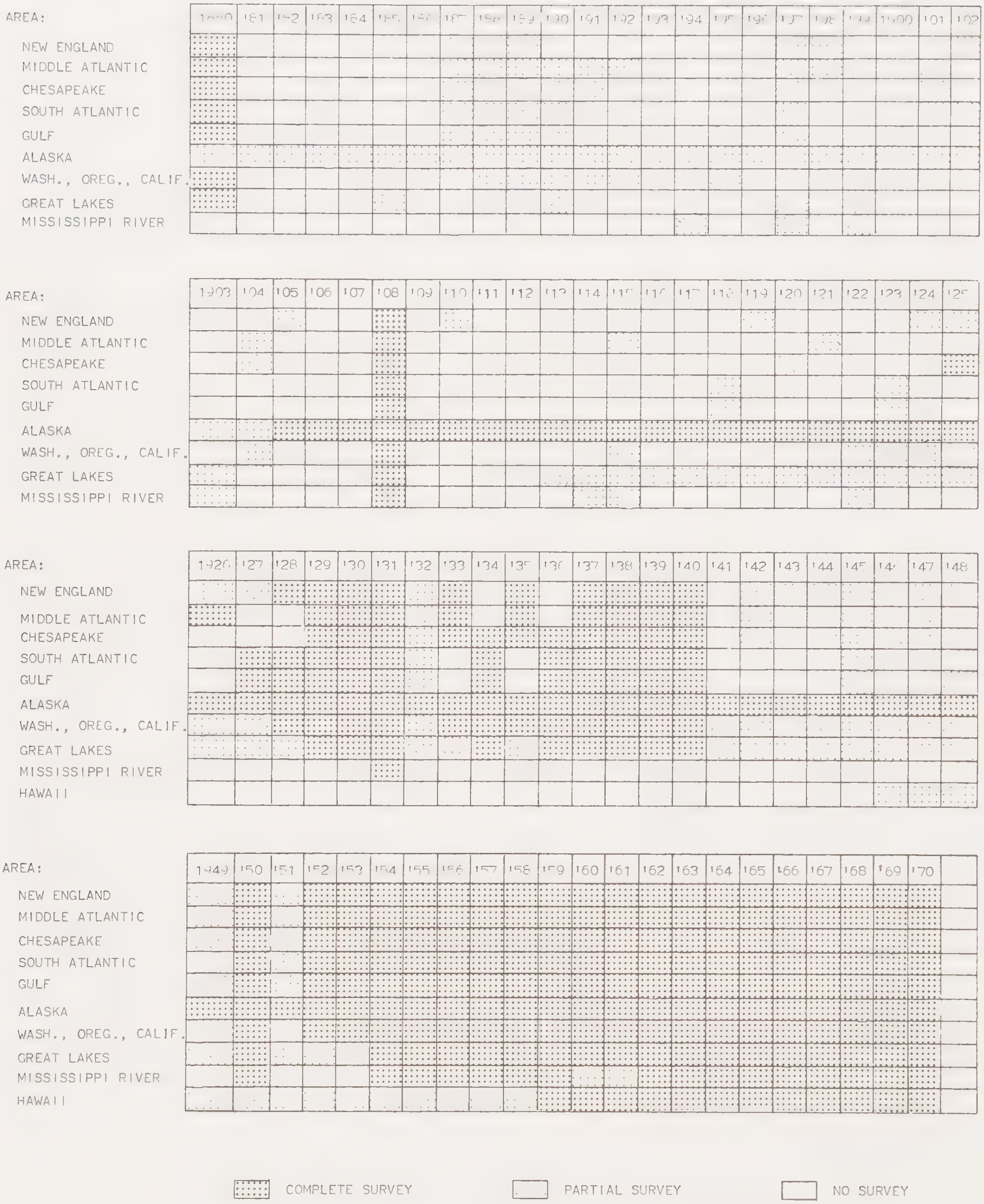
Period Covered--Most of the reporting agents collect statistics on landings for the current year and assemble final operating unit, catch, and processed products data for the previous year. It is usually 3 to 10 months after the end of the calendar year for which they are collecting data before the final figures for the Digest are available. The data are tabulated and prepared for publication as soon as possible after the end of the year. The figures are collected and published on a calendar year basis. Prior to 1930, statistics on the catch of oysters in the Atlantic and Gulf States were collected for the oyster season; this is, from September to April, inclusive. Since 1930, they have been collected on a calendar year basis.

Scope--The coastal statistical surveys include canvasses of the commercial fisheries of the oceans, bays, and coastal rivers as far inland as commercial fishing is important. This usually coincides with the range of commercial fishing for anadromous species. Statistics on the fisheries of the Mississippi River include those of the Mississippi River proper as well as all of its tributaries wherein commercial fishing for either fish, crustaceans, or mollusks is carried on. Statistics on the fisheries of the Great Lakes cover canvasses of the fisheries of the lakes proper, adjacent bays, the International Lakes of northern Minnesota, and rivers which sustain a commercial fishery having outlets into these waters. Statistics on the fisheries of Florida include the commercial fisheries in Lake Okeechobee and other inland lakes. Surveys for statistics of the wholesale and processing fishing industries cover plants located in the coastal, river, and lake areas adjacent to the waters mentioned above.

Methods of Collection--There are several methods used to collect fishery statistics, each of which has been carefully studied to obtain the best results with available personnel and funds. In the preparation of operating units data, field personnel are supplied with a deck of prepunched vessel cards obtained from the Bureau of Customs. These cards indicate the name, official number, rig code, gross tonnage, length, and year built. Field personnel enter the number of crewmen, and number and type of gear used by the vessel. These data are obtained by interview. Data on the craft of less than 5 net tons are obtained from State conservation agencies and by contact with firms purchasing fish or shellfish from fishermen. The data thus obtained are machine processed to ensure accuracy.

STATISTICAL SURVEY PROCEDURE

SURVEYS OF THE FISHERIES OF THE UNITED STATES



STATISTICAL SURVEY PROCEDURE

Data on over 96 percent of the catch are available from summaries of monthly landings bulletins and other current records assembled by NMFS or the various States. If complete catch data are not available from central sources, wholesale dealers and manufacturers of fishery products are visited, and data are obtained from them on their purchases of fish and shellfish. It is impossible for the few Service representatives available for this work to interview each fisherman in a given locality. However, the more important areas and a sufficient number of areas of lesser importance are visited to obtain reliable information on production, the number of fishing craft engaged, the quantity of gear operated, catch by gear and waters, and the number of persons employed as fishermen.

The Service's role with regard to fishery statistics is principally that of coordinating the collection of information and assembling, analyzing, publishing, and disseminating fishery data. The State fishery agencies in a number of States have developed relatively complete statistical systems which greatly facilitate the Service's surveys in these States. In such instances, the Service conducts only such surveys as may be necessary to make the data comparable with those of other States.

NMFS obtains from the records of the State fishery agencies most of the catch statistics for the fisheries of the Great Lakes, the northern Mississippi River area, and the International Lakes of northern Minnesota. To obtain data on the number of fishermen, boats, vessels, and gear, the Service conducts such personal surveys among the fishermen as may be necessary to supplement the State records.

NMFS statistical personnel are stationed at Seattle, Wash. and Terminal Island, Cal. for the purpose of surveying the fisheries of Washington, Oregon, and California. They obtain from the records of the State fishery departments figures on the volume of the catch and operating units. The value of the catch is derived from State and dealers records. In Washington and Oregon, data for operating units in the offshore fisheries are obtained from the records of various fishery organizations as well as from records of the State fishery agencies. Statistics on the wholesale fishery industry for this section are obtained largely by personal interviews.

In many States, NMFS and the fishery agency of the respective States cooperate in the collection and publication of current monthly and annual data on the catch. These data form the basis of the annual catch figures published in the Digest for the following States: Maine, Massachusetts, Rhode Island, New York, New Jersey, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, Ohio, Michigan, and Wisconsin.

In the administration of the Alaska fisheries, the State requires that copies of all receipts for fish and shellfish purchases from fishermen be furnished to the Alaska Department of Fish and Game. The data on these tickets are compiled and made available to NMFS. The summary data, by districts, are reproduced in this report.

Statistics on the volume of the catch of fish in the Great Lakes States usually are shown in weights as landed, which may be in the round or drawn condition. Statistics on the volume of the catch of fish taken in the remainder of the United States are usually shown in round weight.

The figures in the tables for shellfish represent the weight of the meats in the case of univalve and bivalve mollusks, and round weight in the case of crustaceans and such cephalopods as squid and octopus.

STATISTICAL SURVEY PROCEDURE

Shore and Vessel Fisheries--In general, statistics of the shore fisheries collected by NMFS representatives include data on the number of casual and regular fishermen; number of motor and other fishing boats (craft of less than 5 net tons capacity are called "boats"); type and quantity of gear used; and the volume, value, and method of capture of each species for each locality or group of localities. The availability of data collected by some State fishery agencies obviates the necessity of detailed surveys by NMFS personnel.

Statistics on the vessel fisheries include data on the number in the crew; rig of vessels; gross tonnage; kind and quantity of gear used; and volume, value, and method of capture of each species. Craft having a capacity of 5 net tons or over are called "vessels." As in the shore fisheries, the availability of figures collected by State fishery agencies may eliminate the necessity of Service agents collecting these data for individual vessels. Information on the year vessels were built was assembled for 1961 and 1966.

Statistics on the quantity of gear operated indicate the maximum number of units fished at any one time during the year. Gear carried in reserve for replacement is not reported.

All persons engaged in commercial fishing operations are included as fishermen. In most areas, fishermen not on vessels have been divided into "regular" and "casual." Regular fishermen are defined as those who receive more than one-half their annual income from fishing, whereas casual fishermen are those who receive less than one-half their annual compensation from fishing. It has not been possible to separate regular from casual fishermen on the Pacific Coast.

Since 1942, the catch of fish and shellfish has been credited to the port at which it was landed. Prior to the survey for that year, it was the practice of NMFS to credit the entire catch of a vessel to the principal port at which fish or shellfish were unloaded, regardless of the actual home port of the vessels. This policy was discontinued since it quite often resulted in inconsistencies by crediting landings of some species to areas far removed from localities in which they are commonly taken. An outstanding example of this is the southern trawl fishery conducted off the New Jersey, Maryland, Virginia, and North Carolina coasts. Some fishing vessels from New England operate in this fishery for 6 to 10 weeks during the winter season. Prior to the survey for 1942, the catch of these vessels, consisting principally of fish common to Middle Atlantic waters, was credited to Massachusetts. Under the present system, this catch is credited to the Middle Atlantic ports where it is landed.

Since 1949 on the Pacific Coast and 1951 for the remainder of the country, craft, fishermen, and gear have been reported for each State in which they fished. A total exclusive of duplication is shown for each section and for the United States as a whole. Prior to the surveys for 1949, each craft on the Pacific Coast was credited to its home port unless it did not fish from that port during the year. In that case, it was credited to the locality where it landed the greatest portion of its catch. Prior to the survey for 1951, each craft on the Atlantic and Gulf Coasts and interior waters was credited to the port where it landed the greatest portion of its catch during the year. This system was changed to provide more accurate data on the total number of craft operating in a given State. With the increased mobility of the fishing fleet in recent years, the number of vessels fishing in more than one State has increased greatly.

Beginning with data for 1951, the reporting of units of gear was standardized so that nets or lines made up of small units for ease in handling, but fastened together in fishing, were counted as a single unit rather than as a number of smaller units. Prior to 1951, the small units were sometimes counted as individual pieces of gear even though they were combined for fishing. This rule does not apply to halibut longlines or setlines on the Pacific Coast. In this fishery, each skate of gear is counted as one line, even though fastened together in fishing, because the International Pacific Halibut Commission uses a skate as a unit in its studies of fishing intensity.

STATISTICAL SURVEY PROCEDURE

Beginning with 1962, only summary data have been shown on the number of fishing gear operated in the Great Lakes and the International Lakes of northern Minnesota. These data appear in the General Review section of the Digest in the table "Summary of Operating Units." In detailed operating unit tables for these lakes, the number and size of gear have been replaced by information on the fishing effort expended in the operation of each gear.

Publication of Data--Statistics on employment in the fisheries, craft and gear engaged, quantity and value of catch, and certain data on industries related to the fisheries are summarized according to geographic divisions and published in bulletin form as soon as possible after the completion of each survey. Later, the figures, in more detail, are included in this statistical report.

Data on the operating units (fishermen, fishing craft, and gear) and catch by counties for the Atlantic and Gulf States have been included in these annual statistical reports for the years from 1928 to 1938 except for 1932. These data have also been published in the digests for the years 1945, 1950, 1955, and 1960. County data were collected for the State in which surveys were conducted during the years since 1938, except for Maryland. Between 1942 and 1959, only operating unit data by counties have been obtained for Maryland. Complete data were obtained for 1960. County data assembled for the years since 1938 which were not published in the Digest are on file in the Washington Office of the Statistics and Market News Division.

LOCAL AND SPECIAL SURVEYS

Landings at Certain Massachusetts Ports--Detailed statistics are collected on the landings of aquatic products by individual fishing craft at Boston, Gloucester, New Bedford, Plymouth, Provincetown, and other Cape Cod ports. Data on the landings at Boston and Gloucester have been collected annually since 1893. Information on landings at New Bedford has been collected annually since 1938; and at Plymouth, Provincetown, and other Cape Cod ports since 1945. NMFS representatives are stationed at the principal ports. They obtain figures on the quantity and value of fish landed daily by fishing craft, the dates of departure and arrival of the craft, the gear used in their capture, the grounds from which the fish were taken, and other related information. The Service's Office of Resource Research cooperates in the collection of these data.

Statistics on landings at the above ports are released monthly and annually in bulletin form, and summary data are published in the annual Statistical Digest.

Shad and Alewife Fisheries--Surveys for statistics on the catch, value of catch, and operating units in the Hudson and Potomac River shad fisheries are made annually. On the Potomac River, similar statistics are also obtained for the alewife fishery. Much of the data required for these surveys is available from the States' fishery agencies.

Annual data on the shad and alewife fisheries are not published separately in bulletin form. However, a summary is published in the Digest.

Statistics on the Hudson River shad fishery are available for 1896, 1897, 1898, 1901, 1904, 1910, and continuously since 1915. Data for the Potomac River shad fishery are available for 1896, 1901, 1904, 1909, 1915, from 1919 to 1942, inclusive, and continuously since 1944. Statistics on the Potomac River alewife fishery are available for 1896, 1909, 1915, from 1919 to 1942, inclusive, and continuously since 1944.

Pacific Halibut Fishery--Statistics on the Pacific halibut fishery are obtained primarily from the International Pacific Halibut Commission. Beginning with data for 1956, the fleet classification of halibut craft was revised and vessels were credited in operating unit tables to each district in which they landed fish; the only exception being the U.S. vessels landing at Prince Rupert, British Columbia, are credited to Southeastern Alaska. Duplication of halibut craft which operated in more than one district has been eliminated in regional and national totals. The catch by the halibut fleet is credited to the port of landing except that fish landed by U.S. halibut craft in British Columbia, is credited to Southeastern Alaska. Halibut statistics are also included in the monthly and annual summaries published by the Seattle Fishery Market News Office. Statistics on the landings of halibut at Pacific Coast ports have been collected since 1925.

South Atlantic and Gulf of Mexico Shrimp Fishery--Detailed statistics on quantity and value of shrimp, by variety and size, landed at South Atlantic and Gulf ports, have been collected for the Gulf area since 1956 and the South Atlantic since 1957. Since 1956, NMFS personnel have also obtained daily information on the number of fishing trips, area and depth fished, and time spent fishing for craft landing at U.S. ports in the Gulf of Mexico. Various fishery agencies of the southern States cooperate in the collection of these data.

Detailed monthly and annual summaries of the statistics on shrimp catch and landings are published in bulletin form and are summarized in the Statistical Digests.

Historical Fishery Statistics--NMFS has in its files and in various reports or publications, a large volume of historical data on fisheries. Beginning with the 1951 Digest, a section entitled "Historical Fishery Statistics," which includes complete historical information on selected species, has been carried. There is published each year a listing of the titles of the series of data appearing in earlier editions.

Review of Certain Major Fisheries--For the years 1942-66, tabulations containing complete data on the catch of certain major species, have been included in a section of the Digest entitled "Review of Certain Major Fisheries." Although the data are included in the detailed catch tables of the various States, they are consolidated in this section to provide a single source of data for cod, haddock, halibut, menhaden, Atlantic ocean perch, salmon, tuna, oysters, clams, crabs, and shrimp. Data on operating units in the following fisheries have likewise been consolidated in this section: halibut, salmon purse seine and troll line, Atlantic and Pacific Coast tuna, menhaden purse seine, fish and shrimp otter trawls.

Canned Fishery Products and Industrial Products--Since 1921, NMFS has made annual sectional surveys for statistics on canned and industrial fishery products. These surveys are started the first week in January of each year for statistics on the production in the preceding year. So far as possible, the Service obtains by mail, statistics on the annual production of each domestic canned and industrial fishery products plant. If it is impossible to obtain the information by mail, the report is secured by a NMFS representative. Included in the data obtained are statistics on the yield and value of the canned products by type of commodity, can size, and area of production. Data on industrial products are obtained by commodity and area of production. The value shown for canned and industrial products is the gross amount received by the packer at the production point. No deductions are made for commissions or expenses.

Annual statistical bulletins are issued on this trade, and detailed data are published in the Statistical Digest. Prior to 1921, canned and industrial products data were not collected for the entire country. However, data on the production of these products were usually obtained for the areas in which general canvass surveys were conducted.

Fish Meal and Oil--Data are collected monthly on the domestic production of fish meal, body oil and fish solubles. This information is released monthly and annually in the Service's Current Fishery Statistics series of bulletins.

Fish Fillets and Steaks--Statistics on the annual production and value of fish fillets and steaks in the United States are obtained in conjunction with the canned and industrial fishery products survey. These data are released annually in bulletin form and in the annual Statistical Digest. Statistics on the production of fillets and steaks are available for 1926 and annually since 1928, except that no data were collected in California for the years 1941 to 1946, inclusive.

STATISTICAL SURVEY PROCEDURE

Fish Sticks and Portions--Quarterly information is collected and published on the production and value of breaded, cooked and raw fish sticks, breaded, cooked and raw fish portions, and unbreaded fish portions. The data are released in the Service's Current Fishery Statistics series of bulletins.

Cold-Storage Holdings of Fish--Information on the monthly freezings and holdings of fishery products is obtained from cold storage warehouses by mail and by NMFS employees. Data are also obtained on the holdings of certain cured fish. Bulletins showing these statistics are issued monthly and annually.

Detailed cold-storage statistics also are published in the Statistical Digest. Information regarding cold-storage holdings of fishery products has been published since 1917, while data on the quantity of fish frozen have been released for the years from 1920 to 1925, inclusive, and continuously since 1928.

Foreign Fishery Trade--Statistics on foreign trade are obtained from compilations made by the Bureau of the Census, Department of Commerce. Statistics on all known imported or exported fishery products have been assembled and published annually since 1926 in the Digest. For earlier years, figures are available in the reports of the Bureau of the Census, Bureau of Foreign and Domestic Commerce, the Bureau of Statistics, the Department of Commerce and Labor, or the Treasury Department.

PRACTICES AND TERMS

Certain practices and terms used in this report are explained below.

Operating Units--Operating units include persons employed in the fisheries, and craft and gear engaged in the fisheries.

Vessel--A craft having a capacity of 5 net tons or over.

Boat--A craft having a capacity of less than 5 net tons.

Days Absent--In computing "days absent" for vessels landing fares at certain Massachusetts ports, the day of arrival, but not the day of departure, is included; thus, a vessel leaving port on the 8th of the month and returning on the 15th of the month will be credited with 7 days absence. Prior to 1944, "days absent" included both the day of departure and the day of arrival.

Days Fished--In computing "days fished" for fishing craft landing shrimp at Gulf of Mexico ports, the total number of hours spent in fishing effort has been divided by 24.

Fish--The term "fish" as used in this report includes all species belonging to the class Pisces.

Shellfish, et al.--A shellfish is an aquatic invertebrate animal having a shell, such as a mollusk or crustacean. However, in order to reduce the classifications appearing in the catch tables, all items not properly listed as "Fish" or "Whale Products" have been included under "Shellfish, et al." Accordingly, turtles, frogs, sponges, seaweed, and worms are included under this classification.

STATISTICAL SURVEY PROCEDURE

Whale Products--Since data are not available on the poundage of whales taken, statistics appearing in catch tables on the yield of these mammals represent the weight of products produced such as meal, sperm oil, and whale oil. The values shown represent the amount received by the manufacturer for the products.

Incidental Catch--The term "incidental catch" refers to the catch of certain species by a type of gear which ordinarily does not capture such species.

Percentages--Percentages are usually shown as whole numbers. Fractions of percents are dropped if less than five-tenths, and the percentage is raised to the next higher integer if the fraction is greater than five-tenths. If the fraction is exactly five-tenths, add integers are raised to the next even figure while even integers remain unchanged.

Converting--Many of the figures shown in the summary tables published herewith have converted to thousands of pounds or thousands of dollars. In making these conversions the sum of the items in a table is raised or lowered to the nearest thousand in accordance with standard statistical procedures. The individual items are adjusted to conform to the total thus obtained.

Confidential Data--The statistical data collected by the Service are confidential, and, unless specific authorization is given, are not released in a manner that would divulge private enterprise.

CONVERSION FACTORS

It is the policy of the Service to show detailed catch figures of all products in pounds for the sake of uniformity and for the purposes of comparison. This represents little difficulty in the case of fish, since in very rare instances are fish reported in units of measure other than pounds. For shellfish, however, the units of measure may be bushels, sacks, barrels, numbers, gallons of meats, etc. So many units make standardization difficult, and when combined with the wide variation in the requirements or definitions of some of these units in the various States, the problem becomes even more complex.

All univalve and bivalve mollusks (except fresh-water mussel shells) are reported in pounds of meats in the detailed catch tables presented in this report. In addition, there are included supplementary tables for most of the sections, which give data on the production in bushels. These supplementary tables also give the production in number of certain other shellfish, such as crabs. There also is included in the General Review section of this report a table containing data on the shell weight of univalve and bivalve mollusks taken.

Oysters--Probably the greatest problem in the presentation of fishery statistics in uniform units of measure is in the case of oysters. Usually the production of oysters on the Atlantic and Gulf Coasts is reported to NMFS personnel in bushels. Prior to the data obtained for the year 1930, bushels were converted to pounds of meats on the basis of a uniform yield of 7 pounds of meats to the bushel. However, it was found that there was considerable variation in the yield of oysters per bushel particularly in Southern States where the yield has ranged as low as half the conversion factor used prior to 1930. There follows a table which gives the measures used for oysters in the various States and the average yields per bushel. The statistical tables in this report are based on these average yields.

STATISTICAL SURVEY PROCEDURE

MEASURES AND YIELD OF OYSTERS

STATE	CAPACITY OF STATE BUSHEL	VARIATION FROM U.S. STANDARD BUSHEL		YIELD OF MARKET OYSTERS, 1970	
				STATE BUSHEL	U.S. STANDARD BUSHEL
	CUBIC INCHES		PERCENT	POUNDS OF MEATS	
MAINE	2,150.4	-	-	-	-
MASSACHUSETTS	2,150.4	-	-	6.50	6.50
RHODE ISLAND	2,150.4	-	-	7.00	7.00
CONNECTICUT	2,150.4	-	-	7.70	7.70
NEW YORK	2,150.4	-	-	7.50	7.50
NEW JERSEY	2,257.3	+ 106.9	+ 5.0	6.10	5.81
DELAWARE	2,257.3	+ 106.9	+ 5.0	6.82	6.50
MARYLAND	2,800.7	+ 650.3	+ 30.2	7.02	5.39
VIRGINIA	3,003.9	+ 853.5	+ 39.7	6.41	4.59
NORTH CAROLINA	2,801.9	+ 651.5	+ 30.3	6.32	4.85
SOUTH CAROLINA	4,071.5	+ 1,921.1	+ 89.3	4.96	2.62
GEORGIA	5,343.9	+ 3,193.5	+ 148.5	8.32	3.35
FLORIDA, EAST COAST	3,214.1	+ 1,063.7	+ 49.5	5.99	4.01
FLORIDA, WEST COAST	3,214.1	+ 1,063.7	+ 49.5	5.88	3.93
ALABAMA	2,826.2	+ 675.8	+ 31.4	7.10	5.40
MISSISSIPPI	2,826.2	+ 675.8	+ 31.4	5.66	4.31
LOUISIANA	2,148.4	- 2.0	- 0.1	5.16	5.16
TEXAS	2,700.0	+ 549.6	+ 25.6	6.12	4.87

NOTE:--THE CAPACITY OF A U.S. STANDARD BUSHEL IS 2,150.4 CUBIC INCHES.

AVERAGE YIELD OF CERTAIN MOLLUSKS, 1970

STATE	CLAMS						
	HARD		OCEAN QUAHOG	RANGIA	RAZOR	SOFT	SUNRAY VENUS
	PUBLIC	PRIVATE					
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL						
MAINE	11.00	-	-	-	-	15.00	-
MASSACHUSETTS	11.00	11.00	10.00	-	16.00	13.00	-
RHODE ISLAND	12.00	-	10.00	-	-	13.00	-
CONNECTICUT	12.00	1[illegible].00	10.00	-	-	-	-
NEW YORK	12.00	12.00	-	-	16.00	16.00	-
NEW JERSEY	10.00	-	-	-	-	1[illegible].00	-
DELAWARE	8.00	-	-	-	-	-	-
MARYLAND	8.00	-	-	-	-	1[illegible].00	-
VIRGINIA	8.00	8.00	-	-	-	-	-
NORTH CAROLINA	8.75	-	-	4.10	-	-	-
SOUTH CAROLINA	8.75	-	-	-	-	-	-
GEORGIA	8.75	-	-	-	-	-	-
FLORIDA, EAST COAST	8.00	-	-	-	-	-	-
FLORIDA, WEST COAST	8.50	-	-	-	-	-	6.80

STATE	CLAMS - CONTINUED	CONCHS	MUSSELS, SEA	PERIWINKLES AND COCKLES	SCALLOPS		
	SURF				BAY	CALICO	SEA
	POUNDS OF MEATS PER U.S. STANDARD BUSHEL						
MAINE	-	-	15.00	18.00	-	-	6.00
MASSACHUSETTS	11.00	15.00	10.00	-	6.00	-	6.00
RHODE ISLAND	11.00	15.00	-	-	-	-	6.00
CONNECTICUT	-	15.00	-	-	-	-	6.00
NEW YORK	17.00	15.00	10.00	-	6.00	-	6.00
NEW JERSEY	17.00	0.00	-	-	-	-	6.00
DELAWARE	17.00	-	-	-	-	-	-
MARYLAND	17.00	20.00	-	-	-	-	-
VIRGINIA	17.00	0.00	-	-	-	-	6.00
NORTH CAROLINA	-	-	-	-	6.00	4.[illegible]	-
GEORGIA	-	-	-	-	-	[illegible]	-
FLORIDA, EAST COAST	-	-	-	-	-	[illegible]	-
FLORIDA, WEST COAST	-	-	-	-	4.[illegible]	-	-

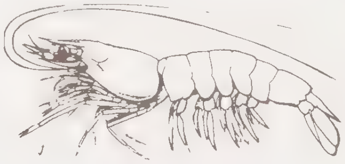
STATISTICAL SURVEY PROCEDURE

RECOVERY OF SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO HEADS-ON WEIGHT

ITEM	SOUTH ATLANTIC AND GULF CATCH		PACIFIC AND NORTH ATLANTIC CATCH	
	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:	PERCENT RECOVERY FROM HEADS-ON WEIGHT	TO CONVERT TO HEADS-ON WEIGHT, MULTIPLY BY:
HEADLESS:				
BROWN (PENAEUS AZTECUS) .	62.1	1.61	-	-
PINK (PENAEUS DUORARUM) .	62.5	1.60	-	-
WHITE (PENAEUS SETIFERUS)	64.9	1.54	-	-
ROYAL RED (HYMENOPENAEUS ROBUSTUS).	55.6	1.80	-	-
SEA BOBS (XIPHOPENAEUS KROYERI)	65.4	1.53	-	-
OTHER (MOSTLY PANDALUS SPECIES)	-	-	57.0	1.75
ALL SPECIES (WEIGHTED AVERAGE)	62.9	1.59	57.0	1.75
PEELED FANTAIL, RAW 1/. . .	50.0	2.00	-	-
PEELED, RAW 1/.	49.0	2.04	28.0	3.57
PEELED, COOKED 1/	31.9	3.13	-	-
BREADED, RAW (INCLUDING FANTAIL) 1/.	100.	1.00	-	-
DRIED 1/.	13.0	7.69	-	-
CANNED 1/	31.2	3.21	16.0	6.25

1/ AVERAGE FOR ALL SPECIES

NOTE:--EFFECTIVE IN 1962, THE CONVERSION FACTORS LISTED ABOVE BECAME THE BRANCH OF STATISTICS' FACTORS FOR CONVERTING VARIOUS SHRIMP PRODUCTS TO HEADS-ON (ROUND) WEIGHT.



STATISTICAL SURVEY PROCEDURE

RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW BASIC PRODUCT, SOUTH ATLANTIC AND GULF STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT			
	HEADLESS RAW	PEELED FANTAIL RAW	PEELED RAW	PEELED COOKED
HEADS-ON (ROUND)	62.9%	50.0%	49.0%	31.9%
FACTOR	1.59	2.00	2.04	3.13
HEADLESS	100.0%	79.6%	77.9%	50.7%
FACTOR	1.00	1.26	1.28	1.97
PEELED	-	-	100.0%	65.1%
FACTOR	-	-	1.00	1.54

BASIC PRODUCT, RAW	PROCESSED PRODUCT - CONTINUED		
	BREADED RAW	CANNED	DRIED
HEADS-ON (ROUND)	100.0%	31.2%	13.0%
FACTOR	1.00	3.21	7.69
HEADLESS	159.0%	49.6%	20.7%
FACTOR	0.63	2.02	4.83
PEELED	204.1%	63.7%	26.5%
FACTOR	0.49	1.57	3.77

SEE NOTE BELOW FOLLOWING TABLE.

RECOVERY OF PROCESSED SHRIMP PRODUCTS AND FACTORS FOR CONVERTING THEM TO WEIGHT OF RAW PRODUCT, PACIFIC AND NORTH ATLANTIC STATES

BASIC PRODUCT, RAW	PROCESSED PRODUCT		
	HEADLESS RAW	PEELED RAW	CANNED
HEADS-ON (ROUND)	57.0%	28.0%	16.0%
FACTOR	1.75	3.57	6.25
HEADLESS	100.0%	49.1%	28.1%
FACTOR	1.00	2.04	3.56
PEELED	-	100.0%	57.1%
FACTOR	-	1.00	1.75

NOTE:--THE QUANTITY OF PROCESSED PRODUCT MULTIPLIED BY THE FACTOR LISTED YIELDS THE WEIGHT OF BASIC PRODUCT REQUIRED TO PRODUCE THE PROCESSED PRODUCT.

OTHER CONVERSION FACTORS

ITEM	WHEN REPORTED AS	TO CONVERT TO:	MULTIPLY BY
OYSTERS	GALLONS OF SHUCKED MEATS	POUNDS OF SHUCKED MEATS	8.75
CLAMS	"	"	8.75
SCALLOPS	"	"	8.75
OILS, FISH AND WHALE	GALLONS	POUNDS	7.75
CRAB MEAT:			
BLUE	POUNDS	LIVE WEIGHT	7.14
DUNGENESS	"	" "	4.17

SECTION 14 - GLOSSARY

In order to prevent misunderstanding in the use of common names employed in the tables and discussions, the following list of common and scientific names is given for fish, shellfish, and other aquatic products taken by United States fishermen.

Common names as shown in Bureau reports	Other common names	Scientific names
FISH		
Alewives	Branch herring, big-eyed herring, river herring	*Alosa pseudoharengus*
	Blueback, glut herring, shad herring	*Alosa aestivalis*
Amberjack	Jack	*Seriola* species
Anchovies		*Engraulis mordax* (Pacific)
Angelfish		*Pomacanthus* species *Angelichthys* species
Anglerfish	Goosefish, allmouth, headfish, monkfish, bellyfish	*Lophius americanus*
Ballyhoo	Balao	*Hemiramphus brasiliensis*
Barracuda		*Sphyraena* species
Bluefish	Tailor, skipjack	*Pomatomus saltatrix*
Blue pike	Pike perch, hard pike, blue pickerel (Canada)	*Stizostedion vitreum glaucum*
Blue runner	Runner, hardtail, crevalle	*Caranx crysos*
Bonito		*Sarda sarda* (Atlantic) *Sarda chiliensis* (Pacific)
Bowfin	Fresh-water dogfish, grindle	*Amia calva*
Brown trout		*Salmo trutta*
Buffalofish	Winter carp	*Ictiobus* species
Burbot	Lawyer, ling	*Lota lota*
Butterfish		*Poronotus triacanthus*
Cabezone	Marbled sculpin	*Scorpaenichthys marmoratus*
Cabio	Black bonito, cobia, ling, lemonfish	*Rachycentron canadus*
Cabrilla	Rock bass	*Epinephelus analogus* (Pacific)
Carp	German carp, summer carp	*Cyprinus carpio*
Catfish and bullheads		*Ictalurus* species *Pylodictis olivaris*
Chubs	Longjaw, bluefin, blackfin (United States), tullibee (Canada)	All *Leucichthys* except *artedi* (Great Lakes)
Cigarfish	Scad	*Decapterus punctatus*
Cisco	Herring (Canada)	*Leucichthys artedi* (Lake Erie only)
Cod	Codfish	*Gadus morhua* (Atlantic) *Gadus macrocephalus* (Pacific)
Crappie	White crappie, calico bass	*Pomoxis annularis*
	Black crappie	*Pomoxis nigromaculatus*
Crevalle	Common jack, jackfish	*Caranx hippos*
Croaker	Crocus, hardhead	*Micropogon undulatus*
Cunner	Chogset, blue perch, bergall	*Tautogolabrus adspersus*
Cutlassfish	Silver eel	*Trichiurus lepturus*
Cusk		*Brosme brosme*
Dolly Varden trout	Salmon trout, bull trout	*Salvelinus malma*
Dolphin		*Corphaena hippurus*
Drum:		
Black	Oyster cracker, oyster drum, sea drum	*Pogonias cromis*
Red	Channel bass, redfish, spotted bass	*Sciaenops ocellata*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Eel:		
Common		*Anguilla rostrata*
Conger		*Conger oceanicus*
Flounders:		
Atlantic and Gulf Coasts:		
Gray sole		*Glyptocephalus cynoglossus*
Lemon sole	(weighing over 3-1/2 pounds each)	*Pseudopleuronectes americanus*
Blackback	Winter flounder (weighing under 3-1/2 pounds each)	
Yellowtail	Dab	*Limanda ferruginea*
Dab	Sea dab	*Hippoglossoides platessoides*
Fluke	Summer flounder, gulf flounder, flounder	*Paralichthys* species
Pacific Coast:		
Arrowtooth halibut		*Atheresthes stomias*
California halibut		*Paralichthys californicus*
Sand dabs		*Citharichthys sordidus*
"Sole":		
Dover		*Microstomus pacificus*
English		*Parophrys vetulus*
Petrale		*Eopsetta jordani*
Rex		*Glyptocephalus zachirus*
Sand		*Psettichthys melanostictus*
Unclassified		Pleuronectidae and Bothidae
Flying fish		*Cypselurus* species
Garfish	Gar, sea gar	*Lepisosteus* species
Gizzard shad	Nanny shad, mud shad, winter shad	*Dorosoma cepedianum*
Goldfish	Sand perch, gold perch	*Carassius auratus*
Groupers	"Sea bass"	*Epinephelus* species *Mycteroporca* species
Grunts	Margate fish, sailors' choice	*Haemulon* species
Haddock		*Melanogrammus aeglefinus*
Hake:		
Red	Squirrel hake, ling, black hake, mud hake	*Urophycis chuss* (Atlantic)
White	Hake	*Urophycis tenuis* (Atlantic)
Pacific	Merluccio	*Merluccius productus* (Pacific)
Halfmoon	Rudder fish	*Medialuna californiensis*
Halibut		*Hippoglossus hippoglossus* (Atlantic) *Hippoglossus stenolepis* (Pacific)
Hardhead	Sacramento rockfish	*Orthodon microlepidotus* (Pacific)
Harvestfish	Starfish, dollarfish, pappyfish, butterfish (N.C.)	*Peprilus paru*
Herring:		
Lake	Herring	*Leucichthys artedii* (Great Lakes except Erie)
Sea		*Clupea harengus* (Atlantic) *Clupea pallasii* (Pacific)
Thread		*Opisthonema oglinum*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Hickory shad	Tailor shad, skip, autumnal herring	*Alosa mediocris*
Hogchoker		*Trinectes maculatus*
Hogfish	Capitaine, perro perro	*Lachnolaimus maximus*
Jack mackerel	Horse mackerel	*Trachurus symmetricus*
Jewfish		*Promicrops itaiara*
King croaker	Kingfish, white croaker	*Genyonemus lineatus*
King mackerel	Cero, kingfish	*Scomberomorus cavalla* *Scomberomorus regalis*
King whiting or "kingfish".	Whiting, sea mink, ground mullet	*Menticirrhus* species
Lake trout		*Salvelinus namaycush*
Lamprey		*Petromyzon marinus* (Atlantic) *Lampetra tridentatas* (Pacific)
Launce	Sand eel, lant, sand launce	*Ammodytes americanus*
Lingcod	Cultus cod, blue cod, buffalo cod, ling	*Ophiodon elongatus*
Boston mackerel		*Scomber scombrus* (Atlantic)
Pacific mackerel		*Scomber japonicus*
Menhaden	Mossbunker, pogy, fatback	*Brevoortia* species
Minnows		Cyprinidae
Mojarra	Sand perch, sand bream	Gerridae
Mooneye	Goldeye, toothed herring	*Hiodon* species
Mullet	Jumping mullet, striped mullet, silver mullet	*Mugil* species
Muttonfish	Mutton snapper	*Lutjanus analis*
Ocean perch:		
Atlantic	Rosefish, redfish, red perch	*Sebastes marinus*
Pacific		*Sebastodes alutus*
Ocean pout	Eelpout, sea pout	*Macrozoarces americanus*
Opaleye		*Girella nigricans*
Paddlefish	Spoonbill cat	*Polyodon spathula*
Perch	Surffish	Embiotocidae (Pacific)
Permit		*Trachinotus goodei*
Pigfish	Hogfish (N.C.)	*Orthopristis chrysopterus*
Pike or pickerel	Great Lakes pike	*Esox* species
Pinfish	Bream, salt-water bream	*Lagodon rhomboides*
Pollock	Boston bluefish	*Pollachius virens* (Atlantic)
Pompano		*Trachinotus* species (Atlantic) *Palometa simillima* (Pacific)
Quillback	Spearfish or skimfish	*Carpiodes* species
Ratfish		*Hydrolagus colliei*
Rock bass	Redeye, goggle-eye, groupers, sand bass	*Ambloplites rupestris* (fresh-water) *Paralabrax nebulifer* (Pacific)
Rockfishes	Rock cod, snapper	*Sebastodes* species (Pacific)
Sablefish	Black cod	*Anoplopoma fimbria*
Salmon:		
Atlantic		*Salmo salar* (Atlantic)
Pacific:		
Chinook or king	Tyee, spring	*Oncorhynchus tshawytscha*
Chum or keta	Fall, dog	*Oncorhynchus keta*
Pink	Humpback	*Oncorhynchus gorbuscha*
Red or sockeye	Blueback	*Oncorhynchus nerka*
Silver or coho		*Oncorhynchus kisutch*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Sand perch	Yellowtail, silver perch	*Bairdiella chrysura*
Sardine (Pacific)	Pilchard	*Sardinops caerulea* (Pacific)
Sauger	Sand pike	*Stizostedion canadense*
Saury	Mackerel-pike	*Cololabis saira*
Sawfish		*Pristis pectinatus*
Sculpin	Scorpionfish	*Myoxocephalus* species
Scup or porgy	Porgee, paugy, fair maid	*Calamus and Stenotomus* species
Sea bass:		
Black	Black jewfish (Pacific)	*Stereolepis gigas*
	Blackfish (Atlantic)	*Centropristes striatus*
White		*Cynoscion nobilis* (Pacific)
Sea catfish	Gafftopsail	*Bagre marinus*
Sea robin		*Prionotus* species
Sea trout or weakfish:		
Gray	Gray trout, squeteague	*Cynoscion regalis*
Spotted	Spotted trout, speckled trout	*Cynoscion nebulosus*
White	White trout, sand trout	*Cynoscion arenarius*
Shad	American shad, white shad	*Alosa sapidissima*
Sharks:		
Grayfish	Dogfish, spiny and smooth dog	*Squalus* and *Mustelus* species
Soupfin		*Galeorhinus zyopterus*
Other		*Carcharodon, Carcharias, Sphryna, Prionace and Lamna* species
Sheepshead:		
Fresh-water	Fresh-water drum, gaspergou, gou	*Aplodinotus grunniens*
Salt-water		*Archosargus* species (Atlantic)
	California redfish, fathead	*Pimelometopon pulcher* (Pacific)
Sierra		*Scomberomorus sierra* (Pacific)
Silversides	Spearing	*Menidia* species
Skates	Ray, rajafish	*Raja* species
Smelt		*Osmerus mordax* (Atlantic and Great Lakes), Atherinidae and Osmeridae (Pacific)
	Eulachon	*Thaleichthys pacificus*
Snapper:		
Mangrove	Gray snapper	*Lutjanus griseus*
Red		*Lutjanus blackfordii*
Vermilion		*Rhomboplites* species
Yellowtail		*Ocyurus chrysurus*
Snook	Robalo, sergeantfish, pike	*Centropomus undecimalis*
Spadefish	Angelfish	*Chaetodipterus faber*
Spanish mackerel	Mackerel	*Scomberomorus maculatus*
Spanish sardine		*Sardinella anchovia*
Splittail		*Pogonichthys macrolepidotus*
Spot	Lafayette, goody	*Leiostomus xanthurus*
Steelhead trout	Salmon trout	*Salmo gairdneri*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
FISH - Continued		
Striped bass	Rockfish, rock	*Roccus saxatilis*
Sturgeon:		
Common		*Acipenser* species
Shovelnose		*Scaphirhynchus platorynchus*
Suckers	Fresh-water mullet, redfin, bayfish	*Catostomus* species
Sunfish	Bream, perch, bluegill	*Lepomis* species
Swellfish	Puffer, swell toad, globefish, blowfish	*Sphaeroides maculatus*
Swordfish		*Xiphias gladius*
Tautog	Blackfish, oysterfish	*Tautoga onitis*
Tenpounder	Big-eyed herring, ladyfish	*Elops saurus*
Thimble-eyed mackerel	Chub mackerel, bullseye mackerel	*Pneumatophorus colias*
Tilefish		*Lopholatilus chamaeleonticeps*
Tomcod	Frost fish	*Microgadus tomcod* (Atlantic) *Microgadus proximus* (Pacific)
Triggerfish		*Balistes* species
Tripletail	Sunfish (N.C.), blackfish	*Lobotes surinamensis*
Tullibee	(See chubs)	
Tuna:		
Albacore	Longfin tuna	*Thunnus alalunga*
Bluefin	Horse mackerel	*Thunnus thynnus*
Little	Bonito, albacore, false albacore	*Euthynnus alletteratus*
Skipjack	Striped tuna	*Katsuwonus pelamis*
Yellowfin		*Thunnus albacares*
Turbot		Pleuronectidae (Pacific)
Wahoo		*Acanthocybium solandri*
Warsaw	Black Jewfish	*Garrupa nigrita*
Whitebait	Silversides	*Menidia beryllina* (Atlantic) Small fry of several species (Pacific)
White bass	White lake bass	*Roccus chrysops*
Whitefish:		
Common		*Coregonus clupeaformis*
Menominee		*Prosopium quadrilaterale*
White perch		*Morone americana*
Whiting	Silver hake	*Merluccius bilinearis*
Wolffish	Ocean catfish (New England)	*Anarhichas lupus*
Yellow bass	Bar fish	*Roccus mississippiensis*
Yellow perch	Ringed perch, perch	*Perca flavescens*
Yellow pike	Wall-eyed pike, pike perch, dore (Canadian).	*Stizostedion vitreum vitreum*
Yellowtail	(For Atlantic, see snapper, yellowtail)	*Seriola dorsalis* (Pacific)
CRUSTACEANS		
Crabs:		
Blue:		
Hard	Hard-shell crab	*Callinectes sapidus*
Soft and peeler	Soft-shell crab	
Dungeness		*Cancer magister*
King	Alaska king crab	*Paralithodes camschatica*

(Continued on next page)

GLOSSARY

Common names as shown in Bureau reports	Other common names	Scientific names
CRUSTACEANS - Continued		
Crabs: - Continued		
Rock		*Cancer irroratus* (New England) *Cancer* species (California)
Stone		*Menippe mercenaria*
Crawfish:		
Fresh-water	Crayfish	*Cambarus* species (Atlantic) *Astacus* species (Pacific)
Salt-water	(See lobsters, spiny)	
Horseshoe crab	King crab	*Limulus* species
Lobsters:		
Northern		*Homarus americanus* (Atlantic)
Spiny	Sea crawfish, rock lobster	*Panulirus argus* (Atlantic) *Panulirus interruptus* (Pacific)
Shrimp	Prawn	*Penaeus*, *Pandalus*, and *Xiphopenaeus* (Atlantic), *Pandalus*, *Pandalopsis*, and *Crangon* species (Pacific)
MOLLUSKS		
Abalone		*Haliotis* species
Clams:		
Cockle		*Cardium corbis* (Pacific)
Hard	Butter	*Saxidomus nuttalli* (Pacific)
	Little neck	*Protothaca staminea* (Pacific)
	Round clam, cherrystone, quahog, little neck	*Venus mercenaria*, *Mercenaria mercenaria*
Ocean quahog		*Arctica islandica*
Razor		*Ensis* species (Atlantic) *Siliqua patula* (Pacific)
Soft	Soft-shell clam, sand clam, nannynose, maninose	*Mya arenaria*
Surf	Skimmer	*Spisula solidissima*
Conchs		*Strombus* species *Busycon* species
Mussels:		
Sea		*Mytilus californianus* (Pacific) *Mytilus edulis* (Atlantic)
Fresh-water:		
Mussel shells		Unionidae
Pearls and slugs		
Octopus	Devilfish	*Paroctopus appollyon*
Oysters:		
Eastern	Cove	*Crassostrea virginica*
Pacific	Japanese	*Crassostrea gigas*
Western	Olympia, native	*Ostrea lurida*
Periwinkles or cockles		*Littorina* species
Scallops:		
Bay		*Pecten* species (Atlantic) *Pecten caurinus* (Pacific)
Sea		*Placopecten magellanicus*

(Continued on next page)

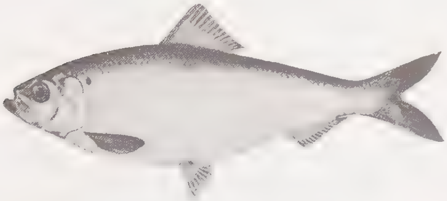
GLOSSARY

Common names as shown in Bureau reports	Other Common names	Scientific names
MOLLUSKS - Continued		
Squid	Inkfish, bone squid, taw taw	*Loligo opalescens* (Pacific) *Loligo pealii* (Atlantic) *Ommastrephes illex* (Atlantic)
OTHER		
Sea urchins	Sea eggs	*Strongylocentrotus drobachiensis*
Terrapin	Diamond-back terrapin	*Malaclemys* species
Turtles:		
Baby		(Young of fresh-water species)
Green		*Chelonia mydas*
Loggerhead		*Caretta* species
Sliders		*Pseudemys* species
Snapper	Hard-shell, alligator turtle	*Chelydra serpentina* *Macrochelys temmickii*
Soft-shell		*Amyda* species
Frogs		*Rana* species
Irish moss		*Chondrus crispus*
Kelp		*Macrocystis* species
Sponges:		
Glove		*Hippiospongia conaliculata*
Grass		*Spongia graminea*
Sheepswool	Wool	*Hippiospongia lachne*
Yellow		*Spongia barbara*
Whales:		
Blue		*Balaenoptera musculus*
Bottlenose		*Berardius bairdi*
Fin		*Balaenoptera physalus*
Humpback		*Megaptera* species
Sei		*Balaenoptera borealis*
Sperm		*Physeter catodon*
Bloodworms		Glyceridae
Sandworms		*Nereis* species

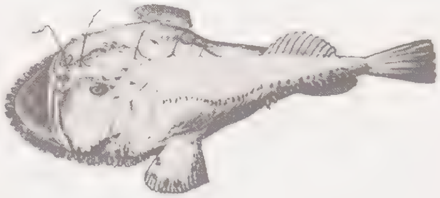
SECTION 15 - PICTORIAL SECTION

As many of the readers of this publication may not be familiar with all of the species of fish and shellfish, etc., taken commercially in the United States, illustrations of many of the various species are included in the following pages. The descriptive material appearing with each species includes the areas in which commercial landings are made in the United States and does not constitute the extreme limits in which they occur. Similarly, the gear listed for each species do not represent the only types of apparatus by which these species are obtained, but represent those types which are normally used in their capture. The gear do not necessarily appear in the order of their importance. Illustrations of species landed in Hawaii are not included in this section.

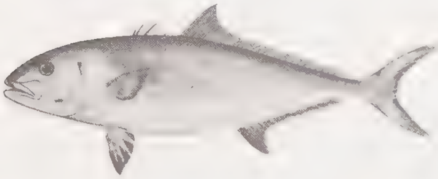
For more detailed information on the nomenclature of the fishery products listed below, the reader is referred to Section 14 of this publication entitled, "Glossary."



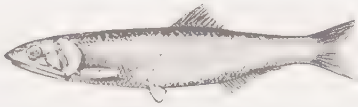
ALEWIFE
RANGE - FLORIDA TO NEW ENGLAND
GEAR - POUND NETS, GILL NETS, WEIRS,
DIP NETS, HAUL SEINES, FLOATING TRAPS,
FYKE NETS



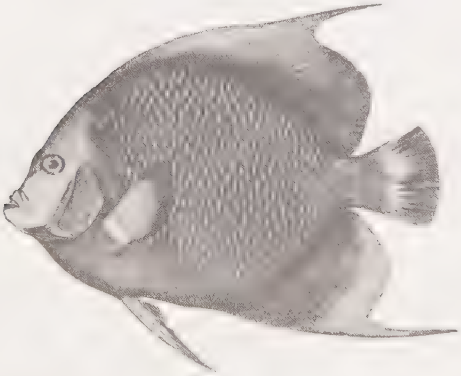
ANGLERFISH
RANGE - NEW JERSEY TO MASSACHUSETTS
GEAR - OTTER TRAWLS, POUND NETS



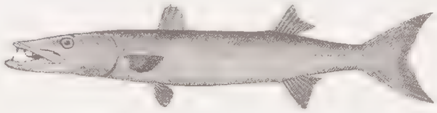
AMBERJACK
RANGE - FLORIDA
GEAR - HANDLINES, TROLL LINES



ANCHOVY
RANGE - CALIFORNIA TO WASHINGTON
GEAR - PURSE SEINES AND HAUL SEINES



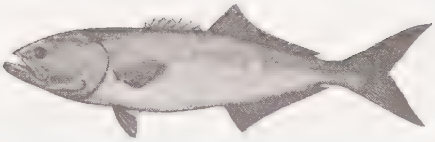
ANGELFISH
RANGE - FLORIDA
GEAR - HAUL SEINES



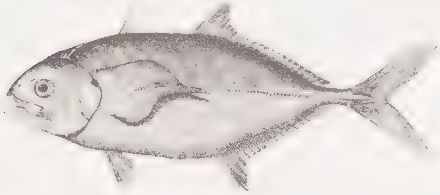
BARRACUDA (ATLANTIC)
RANGE - FLORIDA
GEAR - TROLL LINES, HANDLINES

BARRACUDA (PACIFIC)
RANGE - CALIFORNIA
GEAR - PURSE SEINES, LONGLINES, HANDLINES,
TROLL LINES, GILL AND TRAMMEL NETS

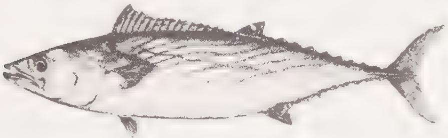
PICTORIAL SECTION



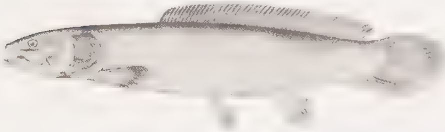
BLUEFISH
RANGE - GULF OF MEXICO TO NEW ENGLAND
GEAR - HAUL SEINES, GILL NETS, POUND NETS, TROLL LINES, PURSE SEINES



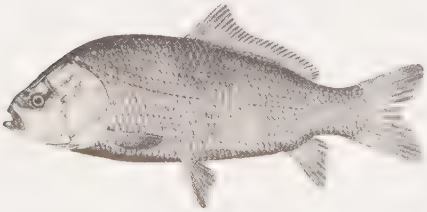
BLUE RUNNER OR HARDTAIL
RANGE - GULF OF MEXICO
GEAR - HAUL SEINES, GILL NETS, POTS



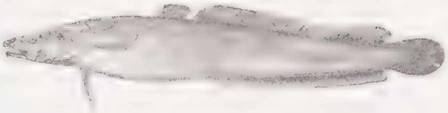
BONITO (ATLANTIC)
RANGE - NORTH CAROLINA TO MASSACHUSETTS
GEAR - POUND NETS, TROLL LINES, GILL NETS



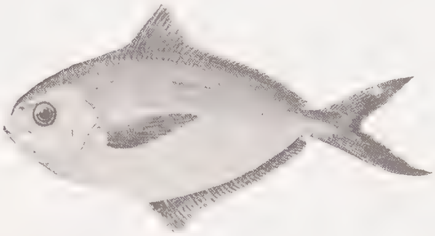
BOWFIN
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



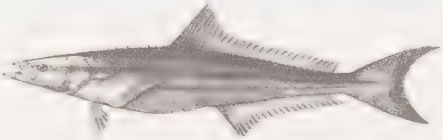
BUFFALOFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, FYKE NETS, TRAMMEL NETS, TROTLINES



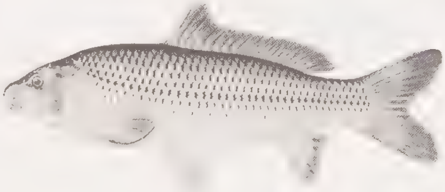
BURBOT
RANGE - GREAT LAKES
GEAR - GILL NETS, FYKE NETS, POUND NETS, TRAP NETS



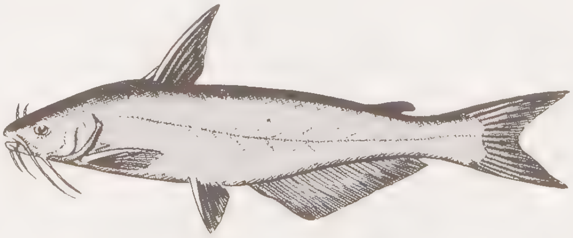
BUTTERFISH
RANGE - FLORIDA TO NEW ENGLAND
GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS



CABIO
RANGE - FLORIDA TO VIRGINIA
GEAR - HANDLINES, POUND NETS

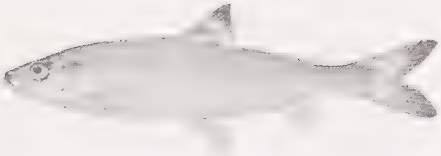


CARP
RANGE - FRESH-WATER
GEAR - HAUL SEINES, GILL NETS, TRAP NETS, FYKE NETS, POUND NETS, TROTLINES

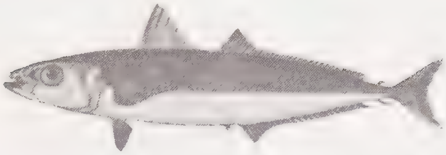


CATFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TROTLINES, POUND NETS, POTS, FYKE NETS

PICTORIAL SECTION

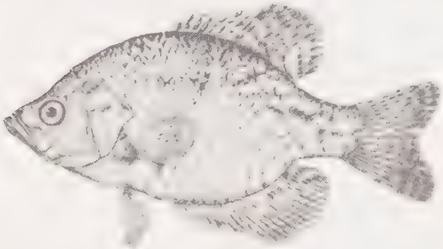


CHUB
RANGE - GREAT LAKES
GEAR - GILL NETS

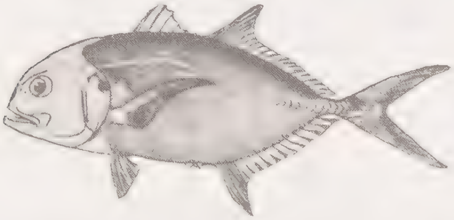


CIGARFISH
RANGE - FLORIDA
GEAR - HAUL SEINES

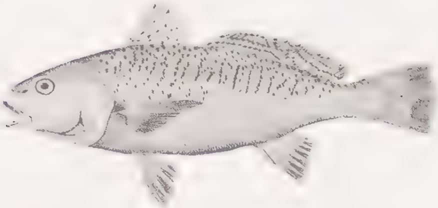
COD
RANGE - VIRGINIA TO MAINE, WASHINGTON,
AND ALASKA
GEAR - OTTER TRAWLS, LONGLINES, GILL NETS



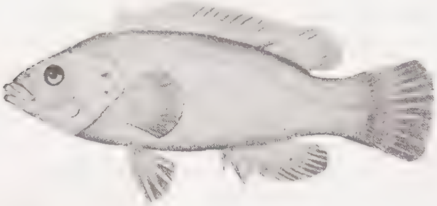
CRAPPIE
RANGE - FRESH-WATER LAKES
GEAR - HAUL SEINES, LINES, POTS



CREVALLE
RANGE - SOUTH ATLANTIC AND GULF STATES
GEAR - HAUL SEINES, GILL NETS, LINES



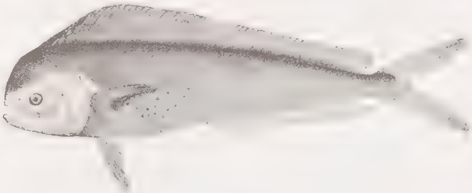
CROAKER
RANGE - GULF OF MEXICO TO NEW YORK
GEAR - POUND NETS, OTTER TRAWLS, HAUL SEINES,
GILL NETS



CUNNER
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES

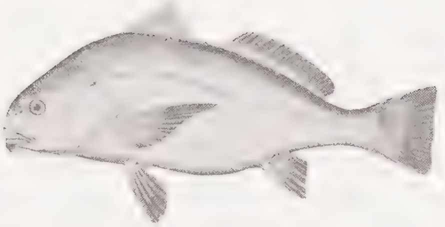
CUSK
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS, LONGLINES

DOLLY VARDEN TROUT
RANGE - PACIFIC
GEAR - POUND NETS, GILL NETS, LINES

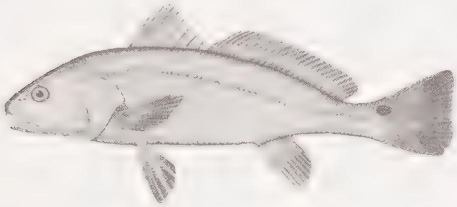


DOLPHIN
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - TROLL LINES

PICTORIAL SECTION

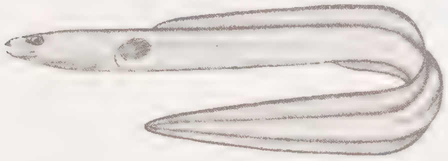


DRUM, BLACK
RANGE - TEXAS TO NORTH CAROLINA
GEAR - HAUL SEINES, POUND NETS, LINES

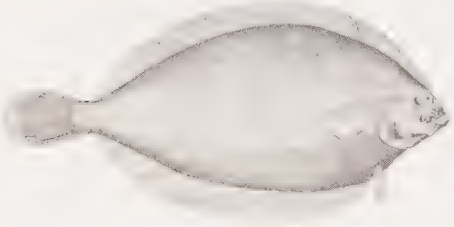


DRUM, RED
RANGE - TEXAS - MARYLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS,
LINES

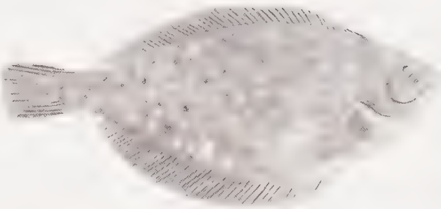
EEL, COMMON
RANGE - FLORIDA TO NEW ENGLAND AND IN
MISSISSIPPI RIVER, LAKE ONTARIO
GEAR - POTS, SPEARS, POUND NETS



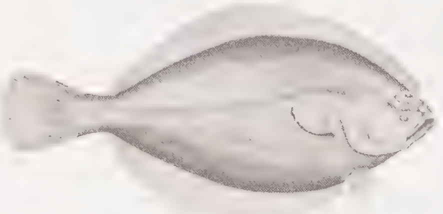
EEL, CONGER
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS



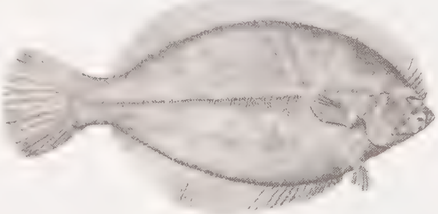
GRAY SOLE
RANGE - MASSACHUSETTS TO MAINE
GEAR - OTTER TRAWLS



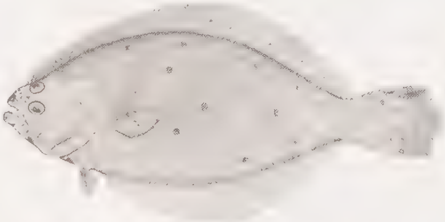
LEMON SOLE
RANGE - NEW YORK TO MAINE
GEAR - OTTER TRAWLS



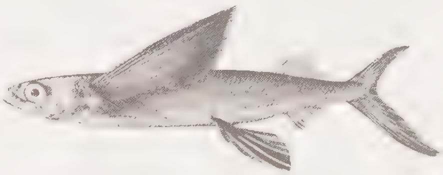
DAB
RANGE - MASSACHUSETTS TO NOVA SCOTIA
GEAR - OTTER TRAWLS, LONGLINES



BLACKBACK OR WINTER FLOUNDER
RANGE - NORTH CAROLINA TO MAINE
GEAR - OTTER TRAWLS, POUND NETS, FYKE NETS,
SPEARS, LINES

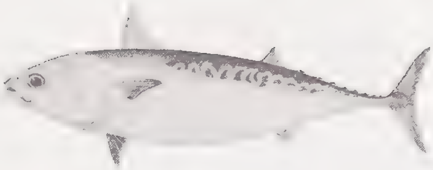


FLUKE
RANGE - TEXAS TO MASSACHUSETTS
GEAR - OTTER TRAWL, SPEARS, LINES

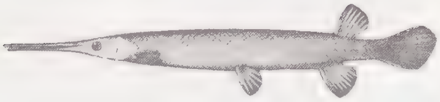


FLYING FISH
RANGE - PACIFIC AND ATLANTIC OCEANS
GEAR - GILL NETS

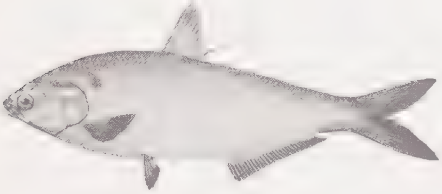
PICTORIAL SECTION



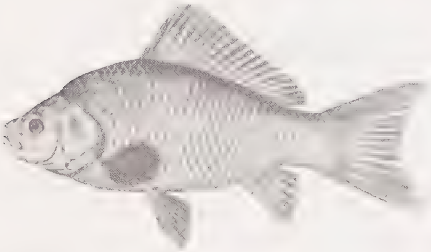
FRIGATE MACKEREL
RANGE - MIDDLE ATLANTIC
GEAR - POUND NETS



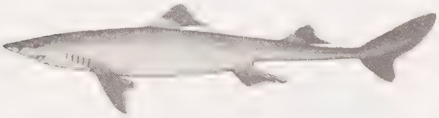
GARFISH
RANGE - FRESH-WATER
GEAR - HAUL SEINES, LINES



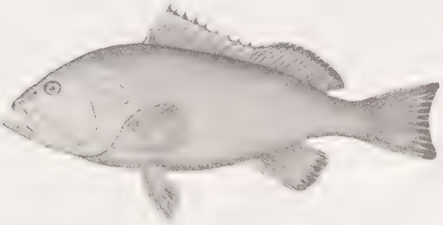
GIZZARD SHAD
RANGE - NORTH CAROLINA TO MARYLAND,
GREAT LAKES
GEAR - HAUL SEINES, POUND NETS, GILL NETS



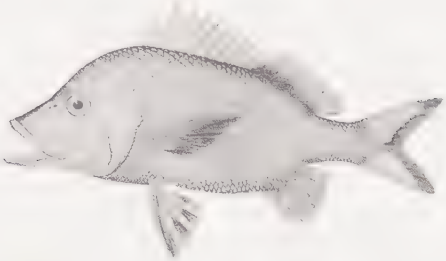
GOLDFISH
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, TRAP NETS, FYKE NETS



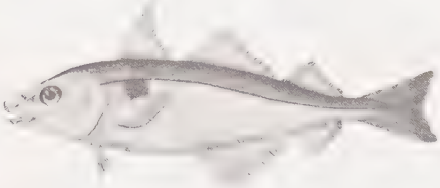
GRAYFISH
RANGE - PACIFIC
GEAR - LONGLINES, OTTER TRAWLS, GILL NETS



GROUPER
RANGE - TEXAS TO SOUTH CAROLINA
GEAR - HANDLINES, POTS



GRUNT
RANGE - FLORIDA
GEAR - POTS, GILL NETS, LINES



HADDOCK
RANGE - NEW ENGLAND STATES
GEAR - OTTER TRAWLS, GILL NETS, LONGLINES

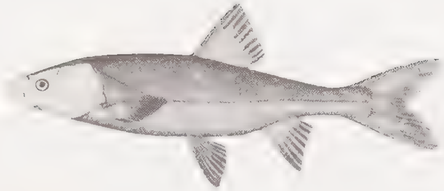
HAKE, RED
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES

HAKE, WHITE
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - GILL NETS, OTTER TRAWLS, LONGLINES

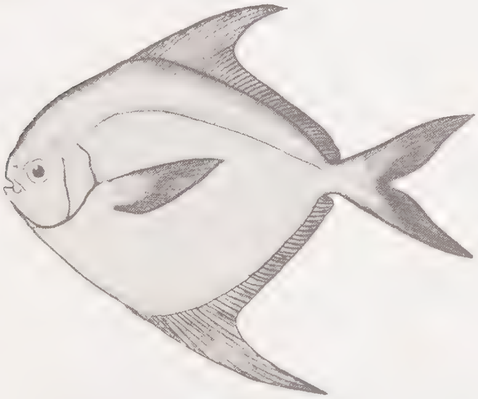
HAKE (PACIFIC)
RANGE - PACIFIC
GEAR - OTTER TRAWLS

HALIBUT
RANGE - PACIFIC COAST - NEW ENGLAND
GEAR - LONGLINES, OTTER TRAWLS

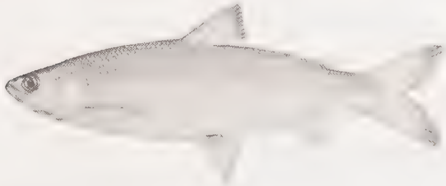
PICTORIAL SECTION



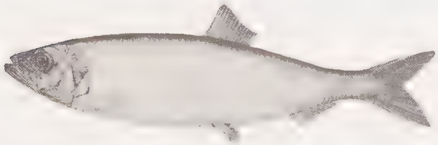
HARDHEAD
RANGE - CALIFORNIA
GEAR - FYKE NETS



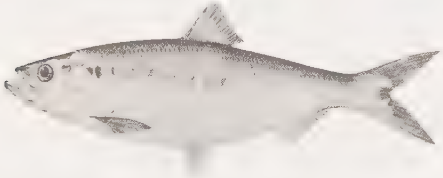
HARVESTFISH OR "STARFISH"
RANGE - NORTH CAROLINA TO CHESAPEAKE BAY
GEAR - HAUL SEINES, POUND NETS



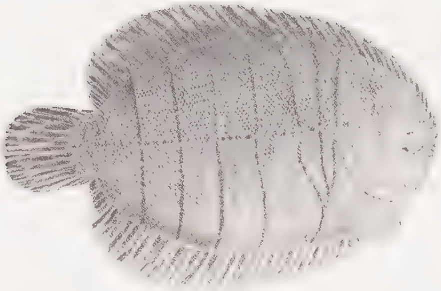
HERRING, LAKE
RANGE - GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, POUND NETS,
TRAP NETS



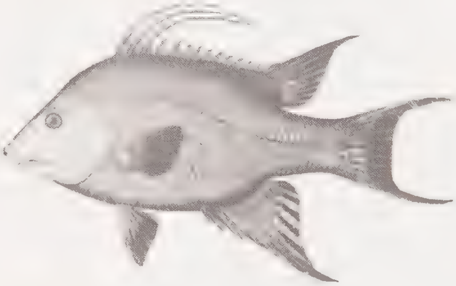
HERRING, SEA
RANGE - NEW JERSEY TO NEW ENGLAND, PACIFIC
COAST STATES AND ALASKA
GEAR - PURSE SEINES, WEIRS, FLOATING TRAPS,
STOP SEINES



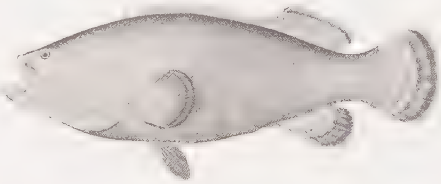
HICKORY SHAD
RANGE - FLORIDA TO RHODE ISLAND
GEAR - POUND NETS, HAUL SEINES, GILL NETS
FLOATING TRAPS



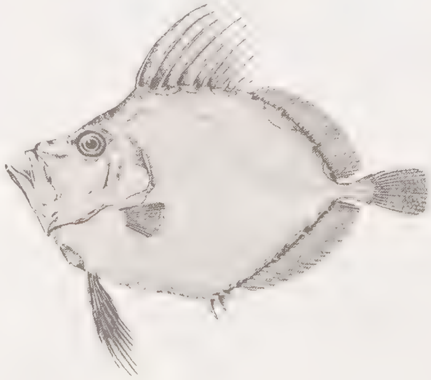
HOGCHOKER
RANGE - CHESAPEAKE BAY
GEAR - POUND NETS, HAUL SEINES



HOGFISH
RANGE - FLORIDA
GEAR - LINES

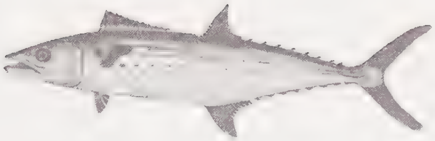


JEWFISH
RANGE - FLORIDA
GEAR - HANDLINES



JOHN DORY
RANGE - MIDDLE ATLANTIC STATES
GEAR - OTTER TRAWLS

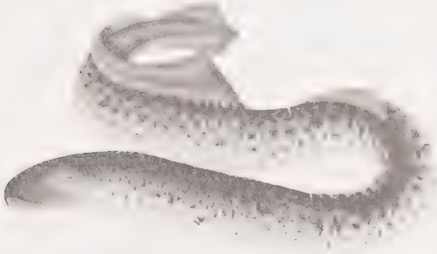
PICTORIAL SECTION



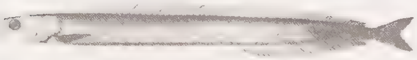
KING MACKEREL
RANGE - TEXAS TO NEW YORK
GEAR - TROLL LINES, GILL NETS, HANDLINES

KING WHITING
RANGE - TEXAS TO MASSACHUSETTS
GEAR - OTTER TRAWLS, HAUL SEINES, POUND NETS

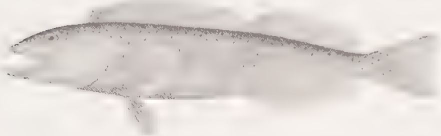
LAKE TROUT
RANGE - GREAT LAKES
GEAR - GILL NETS, LINES, POUND NETS (TRAP NETS)



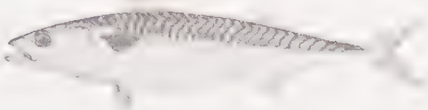
LAMPREY
RANGE - FRESH-WATER
GEAR - POTS, FYKE NETS



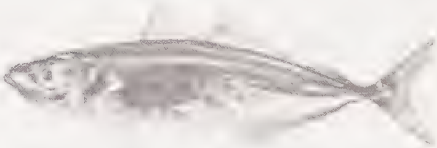
LAUNCE
RANGE - NEW ENGLAND
GEAR - HAUL SEINES



LINGCOD
RANGE - CALIFORNIA TO ALASKA
GEAR - OTTER TRAWLS, LONGLINES, HANDLINES

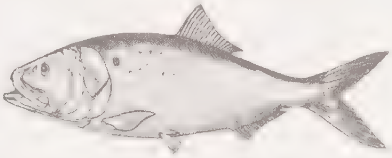


MACKEREL, ATLANTIC
RANGE - CHESAPEAKE BAY TO MAINE
GEAR - PURSE SEINES, GILL NETS, POUND NETS,
FLOATING TRAPS



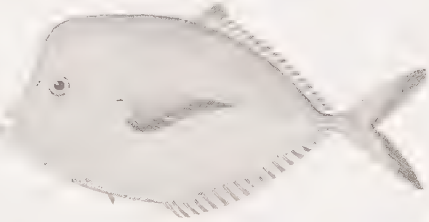
MACKEREL, JACK
RANGE - CALIFORNIA
GEAR - LINES, SEINES, LAMPARA NETS

MACKEREL, PACIFIC
RANGE - CALIFORNIA
GEAR - LINES, SEINES, LAMPARA NETS

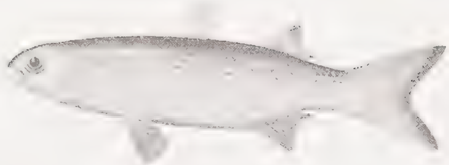


MENHADEN
RANGE - GULF OF MEXICO TO NEW ENGLAND
GEAR - PURSE SEINES, POUND NETS

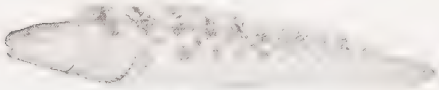
MOONEYE
RANGE - GREAT LAKES
GEAR - HAUL SEINES



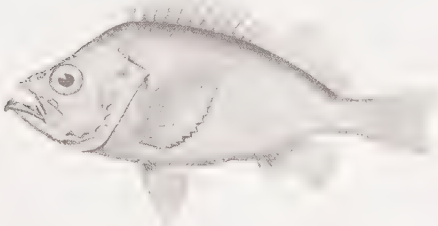
MOONFISH
RANGE - FLORIDA
GEAR - HANDLINES, HAUL SEINES



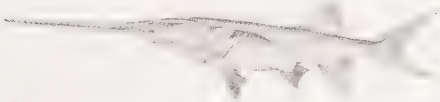
MULLET
RANGE - TEXAS TO NEW JERSEY
GEAR - GILL NETS, HAUL SEINES, POUND NETS,
CAST NETS



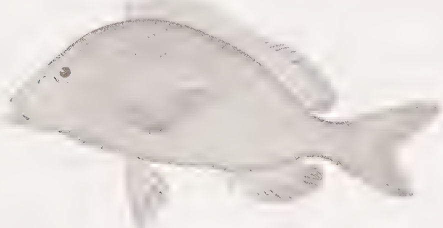
OCEAN POUT
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS



OCEAN PERCH
RANGE - NEW ENGLAND
GEAR - OTTER TRAWLS

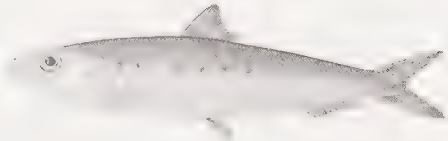


PADDLEFISH
RANGE - GULF OF MEXICO, MISSISSIPPI RIVER
GEAR - HAUL SEINES, TROTLINES

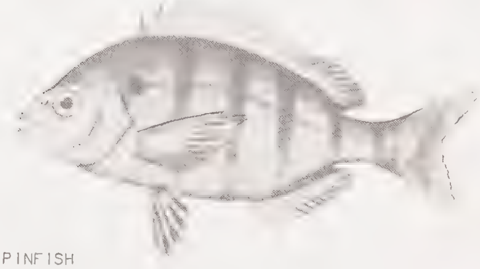


PIGFISH
RANGE - FLORIDA
GEAR - POTS, HANDLINES, GILL NETS

PIKE OR PICKEREL
RANGE - FRESH-WATER
GEAR - TRAP NETS, FYKE NETS, GILL NETS,
POUND NETS, HANDLINES

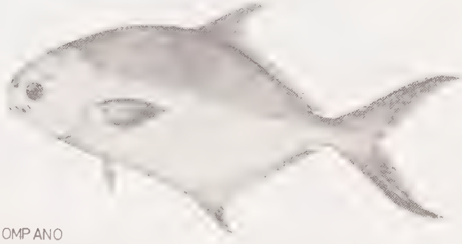


SARDINE, PACIFIC (PILCHARD)
RANGE - CALIFORNIA TO WASHINGTON
GEAR - PURSE SEINES, LAMPARA AND RING NETS,
GILL NETS

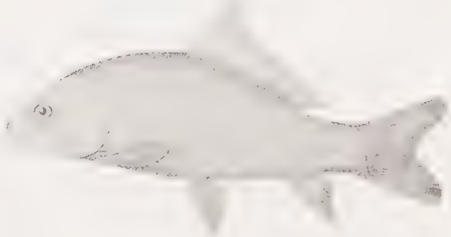


PINFISH
RANGE - FLORIDA TO NORTH CAROLINA
GEAR - HAUL SEINES, GILL NETS

POLLOCK
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
GEAR - LONGLINES, FLOATING TRAPS, POUND NETS,
OTTER TRAWLS, GILL NETS

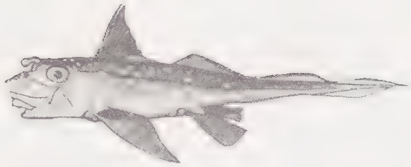


POMPANO
RANGE - TEXAS TO NORTH CAROLINA
GEAR - TRAMMEL NETS, HAUL SEINES, GILL NETS,
HANDLINES

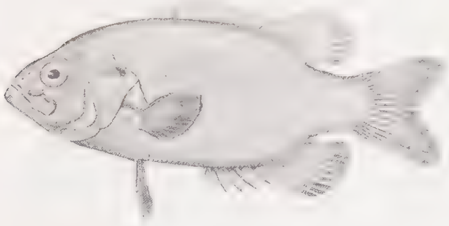


QUILLBACK
RANGE - FRESH-WATER
GEAR - HAUL SEINES, TROTLINES, FYKE NETS

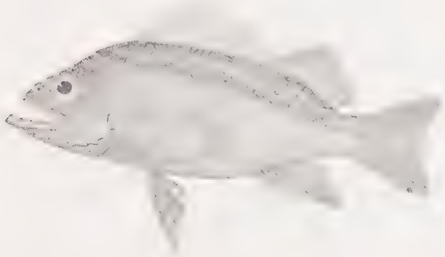
PICTORIAL SECTION



RATFISH
RANGE - WASHINGTON TO ALASKA
GEAR - BEAM TRAWLS, LONGLINES



ROCK BASS
RANGE - GREAT LAKES
GEAR - TRAP NETS, FYKE NETS, HAUL SEINES,
GILL NETS



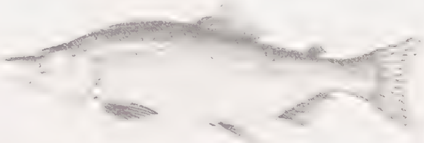
ROCKFISH
RANGE - CALIFORNIA TO ALASKA
GEAR - LINES, OTTER TRAWLS, PARANZELLA NETS,
GILL NETS

RUDDERFISH
RANGE - CALIFORNIA
GEAR - LAMPARA AND RING NETS

SABLEFISH
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - LONGLINES, OTTER TRAWLS

SALMON, CHINOOK OR KING
RANGE - CALIFORNIA TO ALASKA
GEAR - POUND NETS, PURSE SEINES, GILL NETS,
HAUL SEINES, TROLL LINES, REEF NETS

SALMON, CHUM OR KETA
RANGE - OREGON TO ALASKA
GEAR - POUND NETS, PURSE SEINES, GILL NETS,
HAUL SEINES, REEF NETS



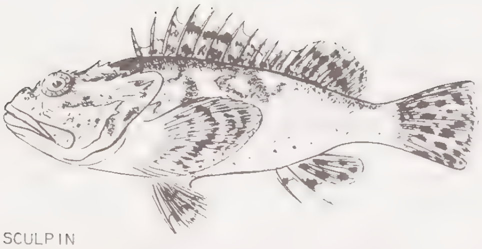
SALMON, PINK
RANGE - WASHINGTON TO ALASKA
GEAR - PURSE SEINES, POUND NETS, GILL NETS
REEF NETS

SALMON, RED OR SOCKEYE
RANGE - OREGON TO ALASKA
GEAR - GILL NETS, PURSE SEINES, POUND NETS,
REEF NETS

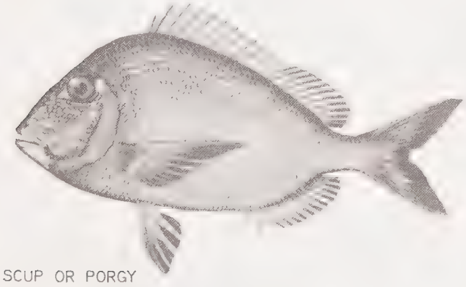
SALMON, SILVER OR COHO
RANGE - CALIFORNIA TO ALASKA
GEAR - HAUL SEINES, PURSE SEINES, GILL NETS,
TROLL LINES, POUND NETS, REEF NETS

SAUGER
RANGE - GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, TRAP NETS,
FYKE NETS

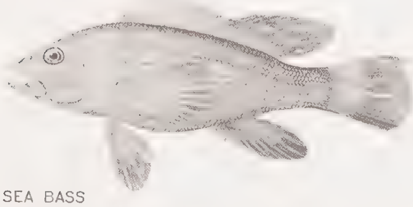
PICTORIAL SECTION



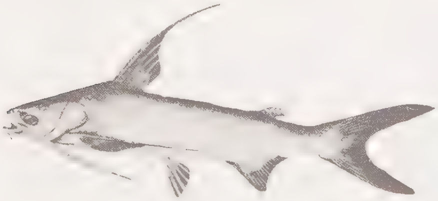
SCULPIN
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - LINES, GILL NETS, POTS



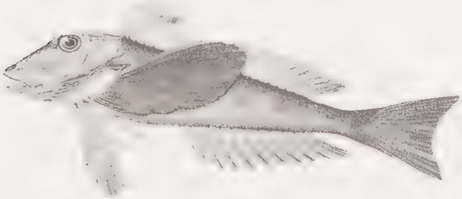
SCUP OR PORGY
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, POUND NETS



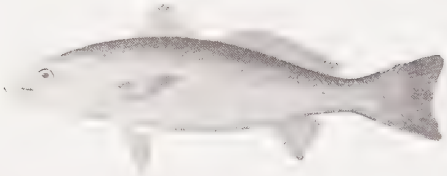
SEA BASS
RANGE - FLORIDA TO NEW ENGLAND
GEAR - OTTER TRAWLS, HANDLINES, POTS



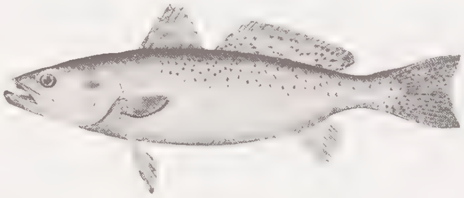
SEA CATFISH
RANGE - TEXAS TO CHESAPEAKE BAY
GEAR - OTTER TRAWLS, HAUL SEINES, HANDLINES



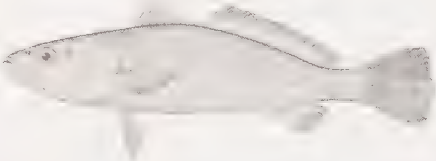
SEA ROBIN
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, OTTER TRAWLS



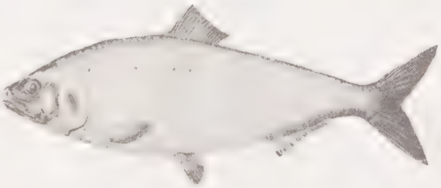
SEA TROUT OR WEAKFISH, GRAY
RANGE - FLORIDA TO MASSACHUSETTS
GEAR - OTTER TRAWLS, POUND NETS, PURSE SEINES,
GILL NETS, HAUL SEINES



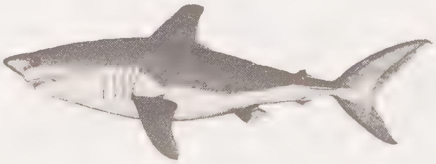
SEA TROUT OR WEAKFISH, SPOTTED
RANGE - MARYLAND TO TEXAS
GEAR - GILL NETS, TRAMMEL NETS, HAUL SEINES,
POUND NETS, OTTER TRAWLS, HANDLINES



SEA TROUT OR WEAKFISH, WHITE
RANGE - GULF OF MEXICO
GEAR - GILL NETS, HAUL SEINES, HANDLINES

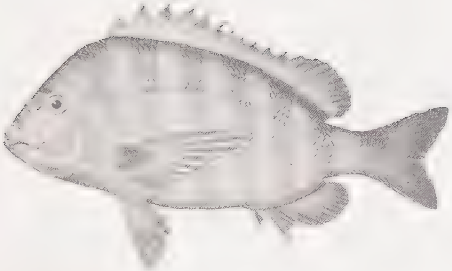


SHAD
RANGE - FLORIDA TO NEW ENGLAND
GEAR - GILL NETS, POUND NETS, FYKE NETS,
HAUL SEINES

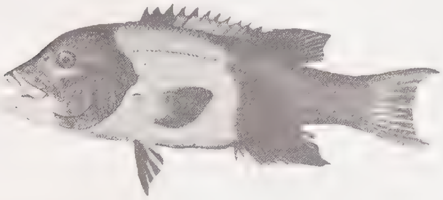


SHARK
RANGE - ATLANTIC COAST, GULF, PACIFIC COAST STATES
GEAR - LONGLINES, GILL NETS, OTTER TRAWLS

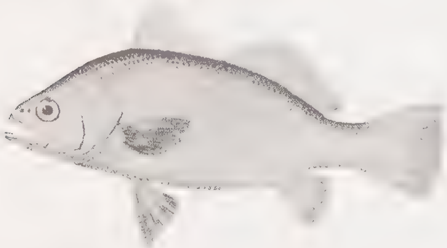
PICTORIAL SECTION



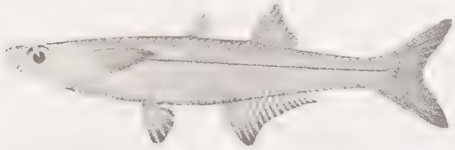
SHEEPSHEAD
RANGE - TEXAS TO CHESAPEAKE BAY
GEAR - HANDLINES, POTS



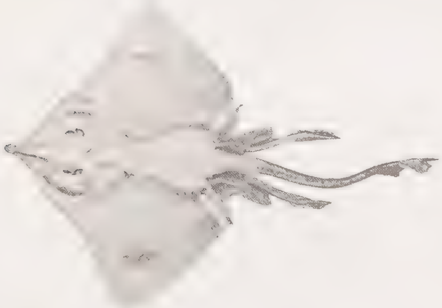
SHEEPSHEAD, CALIFORNIA
RANGE - CALIFORNIA
GEAR - LONGLINES, TRAMMEL NETS



SAND PERCH
RANGE - TEXAS TO NEW YORK
GEAR - HAUL SEINES, GILL NETS, POUND NETS

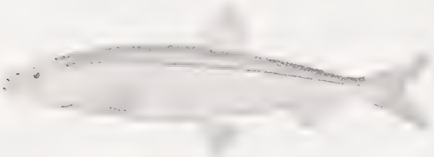


SILVERSIDES
RANGE - NEW YORK
GEAR - HAUL SEINES, OTTER TRAWLS

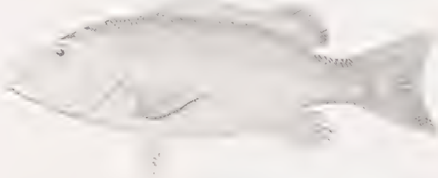


SKATE
RANGE - PACIFIC COAST, CHESAPEAKE BAY TO NEW ENGLAND
GEAR - LINES, OTTER TRAWLS, POUND NETS, HAUL SEINES

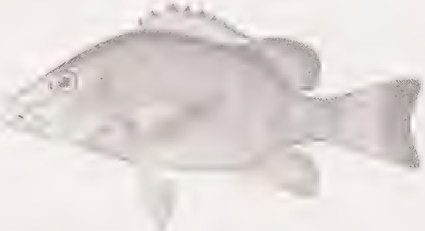
SKIPPER
RANGE - VIRGINIA TO NOVA SCOTIA
GEAR - POUND NETS, WEIRS



SMELT
RANGE - NEW YORK TO MAINE, PACIFIC OCEAN,
GREAT LAKES
GEAR - POUND NETS, DIP NETS, GILL NETS, HAUL SEINES



SNAPPER, MANGROVE
RANGE - FLORIDA
GEAR - HANDLINES, GILL NETS

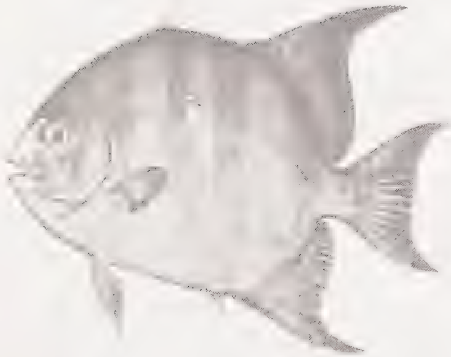


SNAPPER, LANE
RANGE - FLORIDA
GEAR - HANDLINES

SNAPPER, RED
RANGE - TEXAS TO FLORIDA
GEAR - HANDLINES

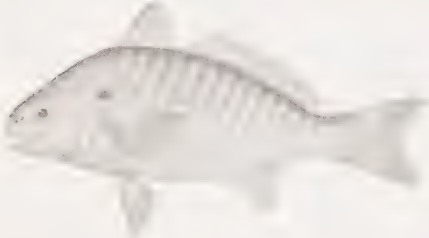
SNOOK
RANGE - TEXAS TO FLORIDA
GEAR - GILL NETS, HANDLINES, HAUL SEINES

PICTORIAL SECTION



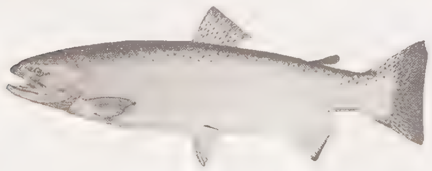
SPADEFISH
RANGE - FLORIDA
GEAR - GILL NETS, TRAMMEL NETS

SPANISH MACKEREL
RANGE - TEXAS TO VIRGINIA
GEAR - GILL NETS, LINES, HAUL SEINES

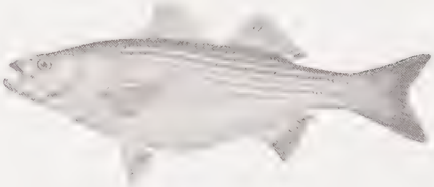


SPOT
RANGE - GULF OF MEXICO TO MIDDLE ATLANTIC STATES
GEAR - HAUL SEINES, GILL NETS, POUND NETS,
OTTER TRAWLS

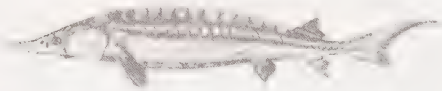
SQUAWFISH
RANGE - CALIFORNIA
GEAR - FYKE NETS, GILL NETS



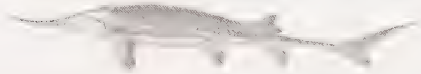
STEELHEAD TROUT
RANGE - OREGON TO ALASKA
GEAR - HAUL SEINES, POUND NETS, GILL NETS,
LINES, DIP NETS



STRIPED BASS
RANGE - NORTH CAROLINA TO NEW ENGLAND, CALIFORNI
TO OREGON
GEAR - HAUL SEINES, GILL NETS, POUND NETS,
HANDLINES, FYKE NETS

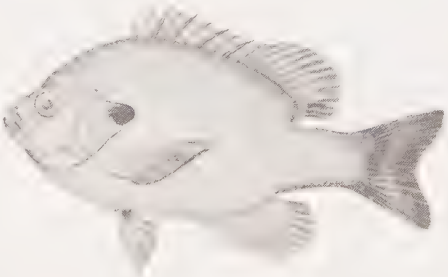


STURGEON
RANGE - COASTAL AND RIVER AREAS
GEAR - GILL NETS, LINES

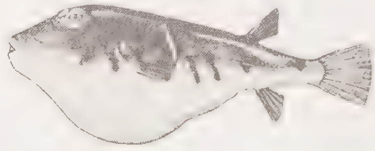


STURGEON, SHOVELNOSE
RANGE - FRESH-WATER
GEAR - HAUL SEINES, LINES, POUND NETS

SUCKER
RANGE - FRESH-WATER
GEAR - POUND NETS, FYKE NETS, GILL NETS,
HAUL SEINES, TRAP NETS

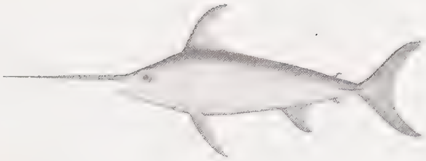


SUNFISH
RANGE - FRESH-WATER
GEAR - POTS, SEINES, TRAP NETS

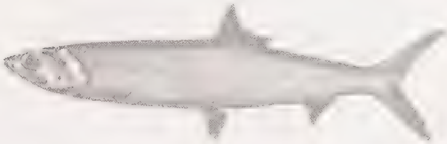


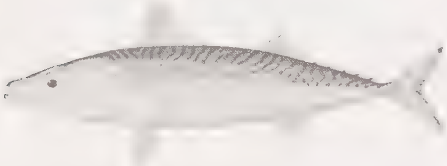
SWELLFISH
RANGE - CHESAPEAKE BAY TO MIDDLE ATLANTIC
GEAR - POUND NETS, HAUL SEINES, OTTER TRAWLS

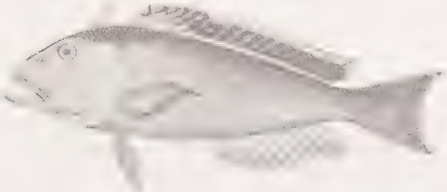
PICTORIAL SECTION


SWORDFISH
RANGE - NEW ENGLAND AND CALIFORNIA
GEAR - HARPOONS

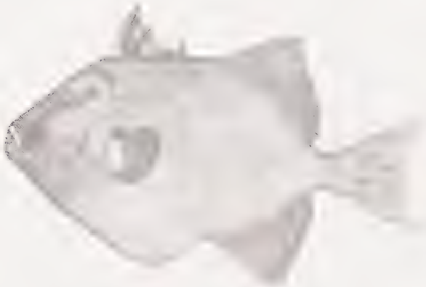
TAUTOG
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, HANDLINES, POTS

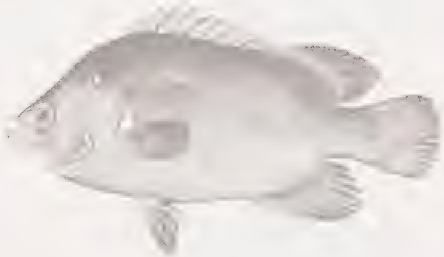

TENPOUNDER
RANGE - FLORIDA
GEAR - HAUL SEINES


THIMBLE-EYED MACKEREL
RANGE - CHESAPEAKE BAY TO NEW ENGLAND
GEAR - POUND NETS, PURSE SEINES, OTTER TRAWLS


TILEFISH
RANGE - MIDDLE ATLANTIC AND NEW ENGLAND STATES
GEAR - LONGLINES, REEF NETS, OTTER TRAWLS

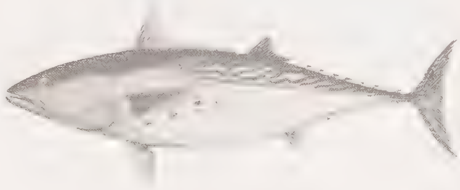
TOMCOD
RANGE - PACIFIC COAST, MIDDLE ATLANTIC AND
NEW ENGLAND STATES
GEAR - OTTER TRAWLS, DIP NETS


TRIGGERFISH
RANGE - FLORIDA
GEAR - HANDLINES

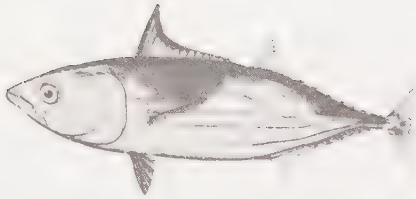

TRIPLETAIL
RANGE - FLORIDA
GEAR - HAUL SEINES, GILL NETS, LINES

TUNA, ALBACORE
RANGE - PACIFIC COAST
GEAR - LINES

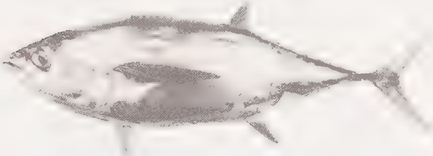
TUNA, BLUEFIN
RANGE - CALIFORNIA, NEW JERSEY TO MAINE
GEAR - PURSE SEINES, LAMPARA NETS, TROLL LINES,
POUND NETS, HARPOONS


TUNA, LITTLE
RANGE - MASSACHUSETTS TO TEXAS
GEAR - POUND NETS, TROLL LINES, OTTER TRAWLS

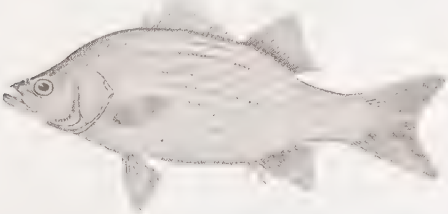
PICTORIAL SECTION



TUNA, SKIPJACK
RANGE - CALIFORNIA
GEAR - LINES AND PURSE SEINES



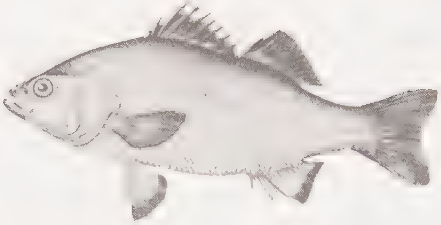
TUNA, YELLOWFIN
RANGE - PACIFIC
GEAR - LINES AND PURSE SEINES



WHITE BASS
RANGE - GREAT LAKES
GEAR - TRAP NETS, FYKE NETS, HAUL SEINES, POUND NETS

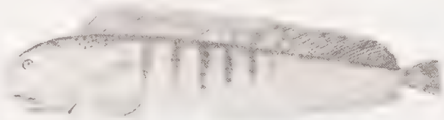
WHITEFISH, COMMON
RANGE - GREAT LAKES
GEAR - GILL NETS, POUND NETS, TRAP NETS

WHITEFISH, MENOMINEE
RANGE - ALASKA, GREAT LAKES
GEAR - GILL NETS, HAUL SEINES, TRAP NETS, POUND NETS

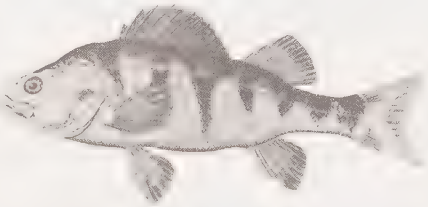


WHITE PERCH
RANGE - NORTH CAROLINA TO MAINE
GEAR - POUND NETS, FYKE NETS, HAUL SEINES

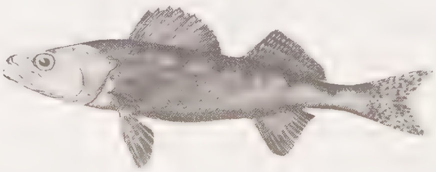
WHITING
RANGE - VIRGINIA TO MAINE
GEAR - OTTER TRAWLS, POUND NETS



WOLFFISH
RANGE - MASSACHUSETTS AND MAINE
GEAR - OTTER TRAWLS, LONGLINES

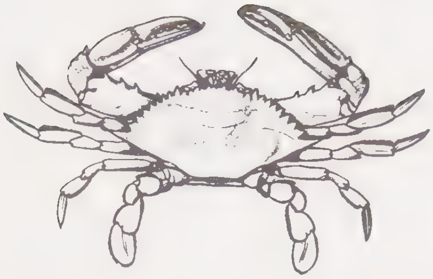


YELLOW PERCH
RANGE - GREAT LAKES, OTHER LAKES
GEAR - GILL NETS, TRAP NETS, POUND NETS, FYKE NETS

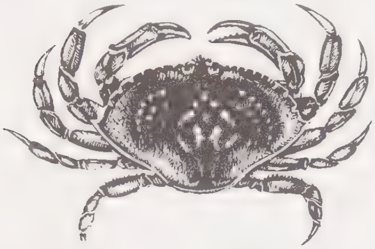


YELLOW PIKE
RANGE - GREAT LAKES
GEAR - POUND NETS, FYKE NETS, GILL NETS, TRAP NETS

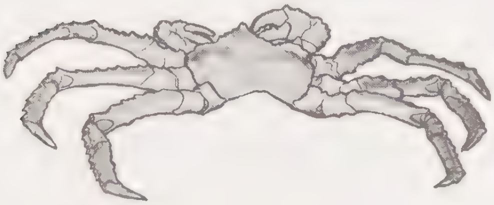
PICTORIAL SECTION



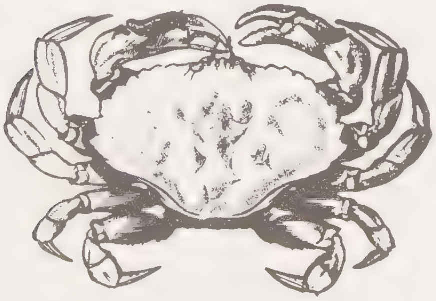
BLUE CRAB
RANGE - TEXAS TO RHODE ISLAND
GEAR - TROTLINES, POTS, FYKE NETS, DIP NETS,
SCRAPES, DREDGES



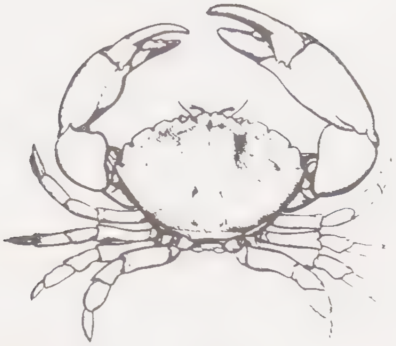
DUNGENESS CRAB
RANGE - PACIFIC COAST STATES AND ALASKA
GEAR - TRAPS



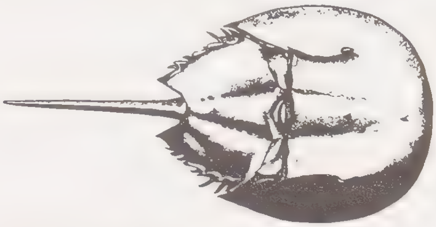
KING CRAB
RANGE - ALASKA
GEAR - POTS



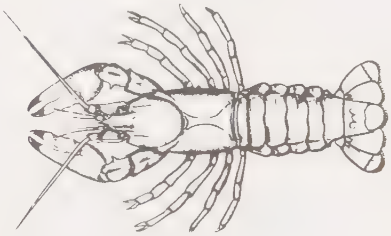
ROCK CRAB
RANGE - NEW ENGLAND
GEAR - POTS



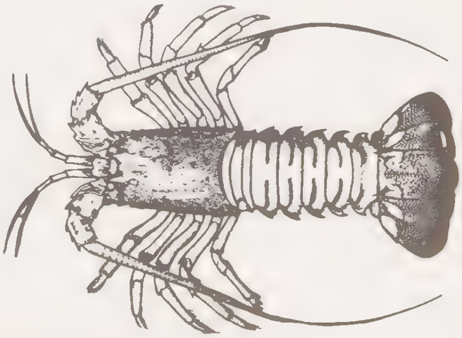
STONE CRAB
RANGE - FLORIDA
GEAR - DIP NETS, CRAB POTS



HORSESHOE CRAB
RANGE - MARYLAND TO NEW YORK
GEAR - POUND NETS, WEIRS, BY HAND

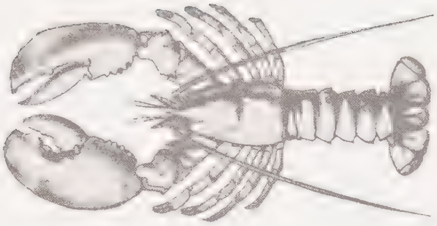


FRESH-WATER CRAWFISH
RANGE - RIVERS AND LAKES
GEAR - POTS

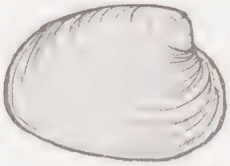


SPINY LOBSTER
RANGE - CALIFORNIA AND FLORIDA
GEAR - DIP NETS, POTS, HOOKS

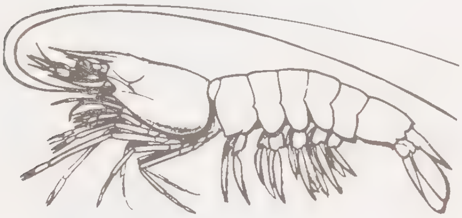
PICTORIAL SECTION



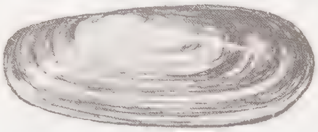
LOBSTER, AMERICAN
RANGE - VIRGINIA TO MAINE
GEAR - POTS, OTTER TRAWLS



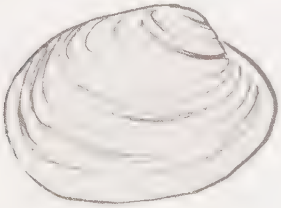
HARD CLAM
RANGE - FLORIDA TO MAINE
GEAR - HOES, DREDGES, TONGS, RAKES, BY HAND



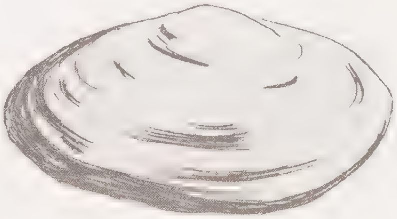
SHRIMP
RANGE - TEXAS TO NORTH CAROLINA, MAINE,
CALIFORNIA, WASHINGTON, AND ALASKA
GEAR - SHRIMP TRAWLS



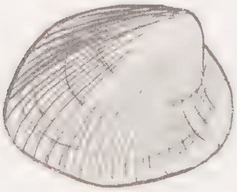
RAZOR CLAM, PACIFIC
RANGE - OREGON, WASHINGTON AND ALASKA
GEAR - SHOVELS



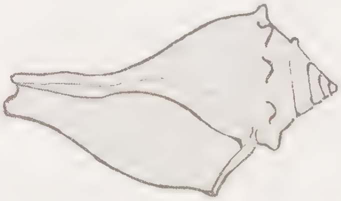
BUTTER CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS



SOFT CLAM
RANGE - MIDDLE ATLANTIC TO NEW ENGLAND,
PACIFIC COAST STATES
GEAR - FORKS, HOES, RAKES, DREDGES

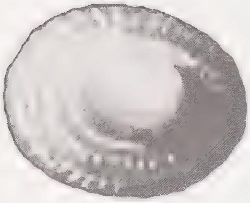


LITTLE NECK CLAM
RANGE - PACIFIC COAST
GEAR - SHOVELS

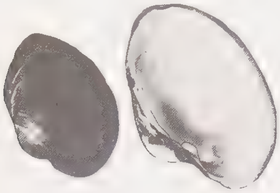


CONCH
RANGE - FLORIDA TO MAINE
GEAR - OTTER TRAWLS, DREDGES, POTS, AND BY HAND

PICTORIAL SECTION

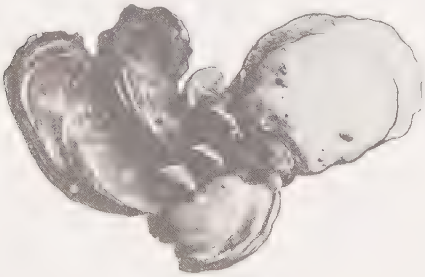


LIMPET
RANGE - NEW YORK AND NEW ENGLAND
GEAR - DREDGES

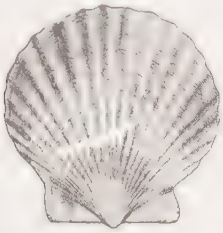


FRESH-WATER MUSSEL
RANGE - FRESH-WATER STREAMS
GEAR - CROWFOOT BARS, PICKS, HAND

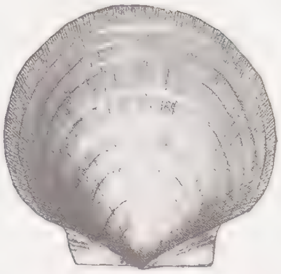
SEA MUSSEL
RANGE - NORTH CAROLINA TO MAINE
GEAR - DREDGES, TONGS, RAKES, HAND



OYSTER
RANGE - TEXAS TO MASSACHUSETTS, PACIFIC COAST
GEAR - TONGS, DREDGES, RAKES, BY HAND



BAY SCALLOP
RANGE - FLORIDA TO MASSACHUSETTS, WASHINGTON
GEAR - DREDGES, SCRAPES, PUSH NETS, TONGS, RAKES
DIP NETS



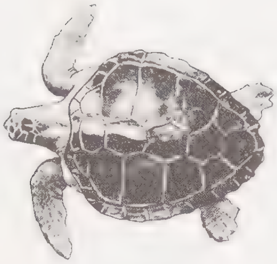
SEA SCALLOP
RANGE - NEW JERSEY TO MAINE
GEAR - DREDGES, OTTER TRAWLS

STARFISH
RANGE - ATLANTIC AND PACIFIC COAST
GEAR - HOOKS, SCRAPES, "MOPS"

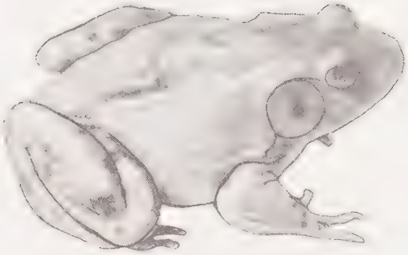
TERRAPIN
RANGE - TEXAS TO NEW JERSEY
GEAR - HAUL SEINES, BY HAND

GREEN TURTLE
RANGE - FLORIDA
GEAR - GILL NETS

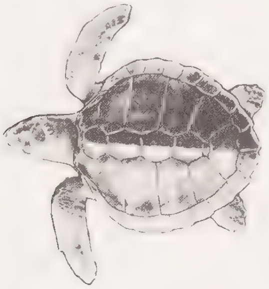
PICTORIAL SECTION



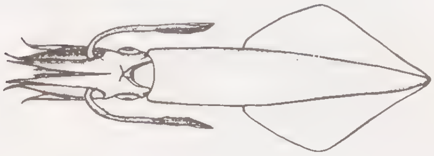
LOGGERHEAD TURTLE
RANGE - FLORIDA TO NEW JERSEY
GEAR - GILL NETS



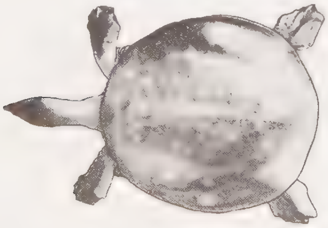
FROG
RANGE - FRESH-WATER, MARSHES, POND
GEAR - SPEARS, GRABS



HAWKSBILL TURTLE
RANGE - GULF OF MEXICO, AND ATLANTIC COAST
TO NEW YORK
GEAR - BY HAND, POUND NETS

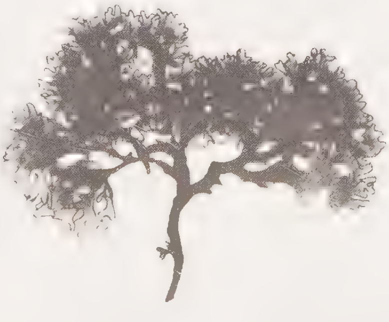


SQUID
RANGE - VIRGINIA TO MAINE, CALIFORNIA AND
WASHINGTON
GEAR - LAMPARA NETS, GILL NETS, OTTER TRAWLS,
POUND NETS



SOFT-SHELL TURTLE
RANGE - LAKES AND RIVERS
GEAR - HAUL SEINES, FYKE NETS, POTS

SPONGE
RANGE - FLORIDA
GEAR - HOOKS, DIVING OUTFITS



IRISH MOSS
RANGE - NEW ENGLAND
GEAR - RAKES

SECTION 16 - STATISTICAL PUBLICATIONS

THE FOLLOWING LIST OF PUBLICATIONS INCLUDES ALL REPORTS ISSUED IN THE CURRENT FISHERY STATISTICS (C.F.S.) SERIES DURING 1970.

C.F.S. NO.	TITLE
	NATIONAL:
5300	FISHERIES OF THE UNITED STATES, 1969
	REGIONAL:
5367	CHESAPEAKE FISHERIES, ANNUAL SUMMARY 1968
5236	GREAT LAKES FISHERIES, ANNUAL SUMMARY 1969
5247	GREAT LAKES FISHERIES, ANNUAL SUMMARY 1968
5248	HAWAII FISHERIES, ANNUAL SUMMARY 1968
5345	MIDDLE ATLANTIC FISHERIES, ANNUAL SUMMARY 1968
5378	MISSISSIPPI RIVER FISHERIES, ANNUAL SUMMARY 1968
5366	NEW ENGLAND FISHERIES, ANNUAL SUMMARY 1968
	STATE:
	ALABAMA LANDINGS,
5178	SEPTEMBER 1969
5229	OCTOBER 1969
5234	NOVEMBER 1969
5238	DECEMBER 1969
5264	ANNUAL SUMMARY 1969
5279	JANUARY 1970
5285	FEBRUARY 1970
5297	MARCH 1970
5327	APRIL 1970
5351	MAY 1970
5377	JUNE 1970
	CALIFORNIA LANDINGS,
5152	SEPTEMBER 1969
5174	OCTOBER 1969
5197	NOVEMBER 1969
5233	DECEMBER 1969
5245	JANUARY 1970
5263	FEBRUARY 1970
5283	MARCH 1970
5329	APRIL 1970
5359	MAY 1970
5403	JUNE 1970
	FLORIDA LANDINGS,
5147	JUNE 1969
5166	JULY 1969
5187	AUGUST 1969
5199	SEPTEMBER 1969
5204	OCTOBER 1969
5216	NOVEMBER 1969
5223	DECEMBER 1969
5269	ANNUAL SUMMARY 1969
5280	JANUARY 1970
5292	FEBRUARY 1970
5315	MARCH 1970
5322	APRIL 1970
5348	MAY 1970
5392	JUNE 1970
5408	JULY 1970
5437	AUGUST 1970
	GEORGIA LANDINGS,
5156	NOVEMBER 1969
5190	DECEMBER 1969
5210	ANNUAL SUMMARY 1969
5219	JANUARY 1970
5242	FEBRUARY 1970
5265	MARCH 1970
5286	APRIL 1970
5338	MAY 1970
5353	JUNE 1970
5381	JULY 1970
5415	AUGUST 1970

C.F.S. NO.	TITLE
	LOUISIANA LANDINGS,
5153	OCTOBER 1969
5163	NOVEMBER 1969
5227	DECEMBER 1969
5249	ANNUAL SUMMARY 1969
5260	JANUARY 1970
5273	FEBRUARY 1970
5276	MARCH 1970
5328	APRIL 1970
5347	MAY 1970
5376	JUNE 1970
5401	JULY 1970
5441	AUGUST 1970
	MAINE LANDINGS,
5161	SEPTEMBER 1969
5189	OCTOBER 1969
5209	NOVEMBER 1969
5224	DECEMBER 1969
5252	ANNUAL SUMMARY 1969
5262	JANUARY 1970
5277	FEBRUARY 1970
5304	MARCH 1970
5333	APRIL 1970
5369	MAY 1970
5383	JUNE 1970
5414	JULY 1970
	MARYLAND LANDINGS,
5150	OCTOBER 1969
5226	NOVEMBER 1969
5239	DECEMBER 1969
5307	ANNUAL SUMMARY 1969
5316	JANUARY 1970
5320	FEBRUARY 1970
5332	MARCH 1970
5339	APRIL 1970
5361	MAY 1970
5387	JUNE 1970
5404	JULY 1970
5425	AUGUST 1970
5444	SEPTEMBER 1970
	MASSACHUSETTS LANDINGS,
5179	ANNUAL SUMMARY (BY PORTS) 1968
5180	ANNUAL SUMMARY (BY GEAR) 1968
5293	JANUARY 1969
5296	FEBRUARY 1969
5305	MARCH 1969
5311	APRIL 1969
5317	MAY 1969
5323	JUNE 1969
5335	JULY 1969
5398	AUGUST 1969
5405	SEPTEMBER 1969
5411	OCTOBER 1969
5417	NOVEMBER 1969
5420	DECEMBER 1969
5426	JANUARY 1970
5429	FEBRUARY 1970
5433	MARCH 1970
5436	APRIL 1970
5438	MAY 1970
5440	JUNE 1970
	MICHIGAN, OHIO, AND WISCONSIN LANDINGS,
5158	SEPTEMBER 1969
5160	OCTOBER 1969
5167	NOVEMBER 1969
5196	DECEMBER 1969
5275	JANUARY 1970
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